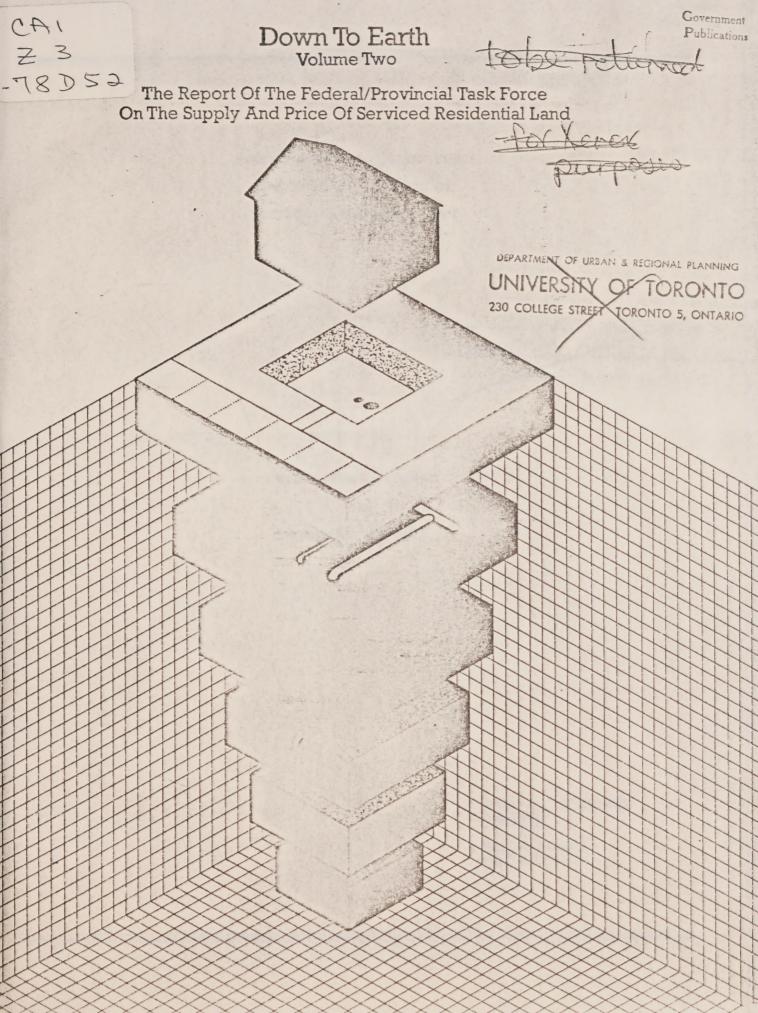
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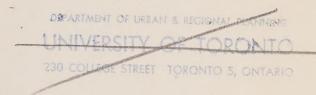
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FEDERAL/PROVINCIAL TASK FORCE
ON THE SUPPLY & PRICE OF
SERVICED RESIDENTIAL LAND



VOLUME TWO

SYNTHESIS & SUMMARY

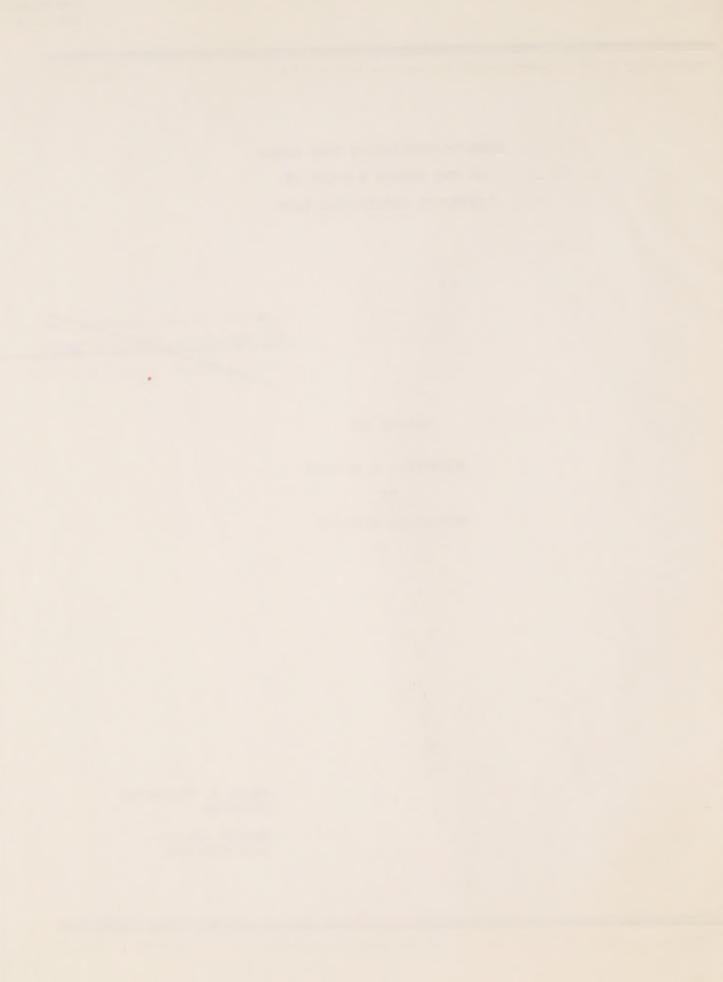
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Rapidly rising land and housing prices became a widespread urban phenomenon across Canada in the early 1970's. In the pressure of the moment, a number of hastily conceived theories were offered to explain this phenomenon. Since land price inflation and, indeed, general price inflation were new and unknown to most of the present generation, it is probably not unkind to say that many of these theories lacked both a strong conceptual framework and an adequate empirical base.

The Task Force was born from a general dissatisfaction with these theories. Its first purpose was to study two related issues, the level of serviced lot prices across the country and the rapid increase in prices during the last decade. In doing so, the Task Force has distinguished between trends which are common across the country and those which are local in nature. This formulation will help local policymakers, for example, to distinguish between forces which are outside their control from other factors which can be influenced by their decisions. Such a distinction would seem to be especially needed in light of the fact that virtually all of the popular theories of land price inflation (e.g., the "monopoly-developer theory" as discussed below) focus on local factors to the exclusion of important national factors such as inflationary expectations.

The second purpose of this Report is to provide policymakers with tools for ongoing research into land markets and in that way to help future decision making. Thus, in addition to investigating the past, the Task Force has created standard research methodologies for future investigation into the profitability of individual subdivisions, concentration of land ownership, infill rezoning, land assembly, municipal servicing standards, lot servicing costs and citizen resistance to development. An important spin-off of the Task Force work in this respect has been the creation for the first time in Canada of data sets on some of these topics which are comparable across the country.

Appendix 2 contains the terms of reference presented to the Task Force. They are little more than a list of factors for investigation and in no sense provide a structured and integrated research program. This gave the Task Force a broad degree of freedom but also imposed the responsibility of making many important decisions on research design and report structure. A short discussion of some of these major decisions follows. Each was influenced by limitations of time and budget.



One of the first questions the Task Force had to deal with was the issue of data versus analysis. No matter how much many may dislike "theory", some conceptual framework (which is the essence of theory) is indispensable merely to know what data to collect and how to interpret it. In some of the problem areas the Task Force analysed, even this most basic need for a conceptual framework required original research. Thus the Task Force gradually came to devote more effort to analytical foundations and research methodologies than originally intended. One result of the Task Force's having developed analytical tools is a set of standard and comparable research methodologies that can provide a basis for future empirical research.

A closely related issue was whether to make do with "off-the-shelf data" or whether to allocate substantial resources to original data collection. A large volume of data has been published, but much of it is irrelevant to price-related questions. Much of the available data appear to be numbers that are easy to collect rather than numbers that are needed. The almost total lack of data on lot servicing costs and on the volumes of land in various stages of the subdivision approval process are only two of many examples. Another problem with the existing data is that they are often non-comparable across urban areas. For both reasons, the Task Force devoted considerable effort to collecting original data.

All original data collection is costly in time and budget. Nevertheless, in concentration of land ownership, municipal servicing standards and lot servicing costs, the Task Force was able to achieve widespread coverage. In other topics, such as the profitability of individual subdivisions, land assembly, infill rezoning, the subdivision approval process and citizen resistance to development, the Task Force had to sacrifice comprehensive coverage in favour of case studies. The Task Force had a sharply limited ability to collect over months original data that the federal, provincial and large municipal governments have not collected over years.

As a result the Task Force tried to do small studies well, opting for illustrative depth in a restricted sample size. The weakness of case studies is that they cannot claim to be representative. The Task Force acknowledges this unavoidable weakness. But case studies are illustrative of the broader trends which many observers believe are at work, not necessarily in every urban area, but generally across the country. They therefore



permit suggestive conclusions about overall markets not limited to the particular markets studied. The case studies are too few in number to yield representative conclusions at this time; but if governments applied the Task Force's standardized methods on a continuing basis, they could quickly build a representative data base.

Another important decision made by the Task Force was to devote considerable time to a review process. All contributors were required to submit their work to a process of intense critical review by panels of experts from a wide variety of disciplines and occupations: economists, politicians, senior federal, provincial and municipal policymakers, geographers, consulting engineers, land market analysts, land use planners, social policy analysts, financial analysts, developers and accountants. Often the review sessions were face-to-face confrontations, recorded on tape. This process was designed to minimize error, reduce omissions and prevent the Task Force from acquiring the biases of the contributors.

Against this background, we conclude our Introduction with some comments on the structure of Volume Two. We emphasize that its purpose is to synthesize and summarize, not reproduce, the research undertaken by the Task Force. It therefore selects from the data sets in order to highlight and illustrate the Task Force's major findings. Full data sets will be published at a later date in Volume Three, the Research Studies Volume; it will also contain the full texts of the individual research studies commissioned by the Task Force. Appendix 3 contains the proposed table of contents for Volume Three.

Chapter 2 gives a statement of the problem along with a brief statistical overview of the recent past. Chapters 3 and 4 are devoted to a general analysis of land prices in order to provide the necessary conceptual framework. Chapter 5 deals exclusively with the boom years, 1972 to 1975. The remaining chapters of the Report consist principally of empirical analysis of the other issues mandated in the terms of reference, Chapters 6 to 9 dealing with the private sector issues and Chapters 10 to 14 dealing with the public sector issues. Chapter 15 presents the Task Force's summary and conclusions.



#### 2. CANADIAN SERVICED LOT AND HOUSING PRICES: A STATISTICAL ABSTRACT

Before we begin our analysis, a short review of the recent past is probably in order. The present chapter will, therefore, numerically document serviced lot and dwelling price changes over the recent past in order that the detailed analysis in the subsequent sections can be put into perspective. The purpose of so doing is to provide the reader with a common perception of past events. Many subsequent chapters, for example, refer to the "boom years" of 1972 to 1975 and an understanding of what this implies in quantitative terms will obviously be important to the discussion.

#### A. Serviced Lot Prices

The best available data on serviced lot prices are those provided by the Central Mortgage and Housing Corporation on the lot cost component of newly constructed single detached dwellings financed under the National Housing Act (NHA). Although the NHA lot cost data are subject to a number of limitations and biases they are certainly sufficient for the present purposes of illustrating general trends which have occurred over time and comparing serviced dwelling lot costs across urban areas. (1)

In order to prevent becoming bogged down in the numbers, we have placed all of the disaggregated data in the Appendix to this volume. Tables in that Appendix are numbered Al-A9 and are used to derive the tables listed below.

Table 2.1 presents lot costs on a foot frontage basis in terms of percentage changes for three periods: 1966-1969, 1969-1972, and 1972-1975. In Table 2.1 both nominal (current dollar) and real (constant dollar) percentage changes are recorded. The nominal and real percentage changes represent actual price changes and price changes relative to price changes of other goods and services respectively. Alternatively, the real figures show the change in price relative to the "average" price change in the economy.

Table 2.1 shows that in each period, lot prices rose in real as well as in nominal terms implying that building lots were becoming increasingly costly relative to other goods and services. It is also clear that prices took a dramatic leap during the 1972-1975 period, a period which subsequent chapters refer to as the boom years. Over this period the mean real price increase for the 25 areas listed was 40.5% with the nominal increase reading 85.7%. Thus, during this period of general

<sup>(1)</sup> For a discussion on the limitations of this data see the Task Force Research Volume, Chapter 2.



Percent Changes in Average Cost per Foot Frontage of Fully Paid Fully Serviced

Lots for New Housing Financed Under the

National Housing Act.

	Percent (		Percent 1969-1		Percent Change 1972-1975		
	Nominal	Real	Nominal	Real	Nominal	Real	
Vancouver	68.9	49.9	43.2	28.5	127.4	72.0	
Victoria	97.5	75.2	-4.3	-14.1	187.7	117.6	
Calgary	41.1	25.2	36.9	22.9	102.5	53.2	
Edmonton	19.5	6.0	28.5	15.4	99.8	51.1	
Regina	14.9	2.0	6.6	-4.3	80.7	36.7	
Saskatoon	39.1	23.4	0.7	-9.6	59.2	20.4	
Winnipeg	10.4	-2.0	20.3	8.0	154.8	92.7	
Toronto	40.8	24.9	28.1	15.0	104.0	54.3	
Hamilton	65.4	46.8	26.1	13.2	136.0	78.5	
Ottawa	15.7	2.7	36.3	22.4	115.4	62.9	
London	55.3	37.8	15.4	3.6	113.7	61.6	
Kitchener	62.0	43.7	24.9	12.1	116.7	63.9	
Windsor	29.7	15.1	27.3	14.3	41.9	7.3	
St. Catharines	52.8	35.6	12.3	0.8	87.9	42.1	
Sudbury	40.3	24.5	76.3	58.3	19.6	-9.5	
Kingston	42.2	26.2	22.3	9.8	126.9	71.6	
Peterborough	46.9	30.3	50.7	35.3	91.2	44.6	
Thunder Bay	46.8	30.3	59.8	43.4	77.7	34.4	
Sault Ste. Marie	15.6	2.6	46.5	31.5	111.5	60.0	
Montreal	11.9	-0.7	-30.7	-37.8	48.0	12.0	
Quebec City	9.4	-2.9	25.4	12.6	14.8	-13.2	
Sherbrooke	77.1	57.1	-17.7	-26.1	-15.1	-35.8	
Halifax	11.9	-0.7	45.9	31.0	15.9	-12.3	
Saint John	29.9	15.3	48.0	32.9	84.3	39.4	
Moncton	10.8	1.7	59.6	43.3	40.7	6.4	
MEAN	38.2	22.7	27.5	14.5	85.7	40.5	

NOTE: Real percent change equals nominal percent change less change in CPI divided by one plus change in CPI.

SOURCE: Derived from Table Al and CMHC, Canadian Housing Statistics 1976, Table 106.



inflation, lot prices increased at a rate of over 40% in excess of general consumer prices.

It is also important to note that this boom was widespread. It affected all parts of the country, although with less force in Quebec and the Atlantic Provinces, for reasons we deal with later. Sixteen of the 25 areas shown in Table 2.1 had real price increases in excess of 30%. Table 2.2 aggregates the cities by national region, first by decomposing the country into the five most western and five most eastern provinces. For the 19 areas from Ontario to the west coast, the average real price increase was 53.4%. The nominal increase in this region was over 100%. This means that dwelling lot prices from Ontario to the west coast more than doubled over this short three year period.

## B. Dwelling Prices

Table 2.3 records average price changes for existing properties sold through the multiple listing service in the same format as was presented for lot prices and lot price changes in the previous section. Table 2.4 presents the same data for newly constructed dwellings financed under the NHA. It is important to emphasize that there are a number of biases associated with both these series which tend to limit their comparability on a city specific basis. (1) Despite this serious limitation, both series document the dramatic increase in housing prices over the 1972-1975 period relative to the previous period as is shown in Tables 2.3 and 2.4. As well, the tables also illustrate the national nature of the price escalations. When comparing the 1972-1975 period with the previous period, both the MLS and NHA series indicate a more rapid rate of real price increases for the latter period in 21 of the 25 cities examined. Tables 2.3 and 2.4 also illustrate that dwelling price increases were greatest in the five provinces west of the Province of Ouebec.

Although there have been many discussions about the relationship between dwelling price changes and the affordability of housing, it is a difficult concept because different groups are affected in different ways by dwelling price changes. Indeed, some

<sup>(1)</sup> For example, a comparison of Table A5 and A8 of the Appendix reveals that MLS prices in Sherbrooke decreased by 22.5% over the 1972-1975 period, while the NHA series indicates an increase of 49.9%. A discussion of the biases associated with these series is contained in the Task Force Research Studies Volume, Chapter 2.



Percent Changes in Average Cost Per Foot Frontage of Fully Paid, Fully Serviced

Lots for New Housing Financed Under the

NHA:

Selected Averages of Urban Areas from Table 2.1

	Percent Change		Percent ( 1969-1		Percent (		
	Nominal Real		Nominal	Real	Nominal	Real	
Ottawa to West Coast	42.4	26.3	29.4	16.1	102.9	53.4	
Montreal to East Coast	25.2	11.1	21.8	9.3	31.4	-0.6	
Atlantic Provinces	17.5	4.3	51.2	35.7	47.0	11.2	
Quebec	32.8	17.8	-7.7	-17.1	15.9	-12.3	
Ontario	42.8	26.7	35.5	21.6	95.2	47.6	
Manitoba Saskatchewan	21.5	7.8	9.2	-2.0	98.2	49.9	
Alberta British Columbia	56.8	39.1	26.1	13.2	129.4	73.5	
All 25 Urban Areas	38.2	22.7	27.5	14.5	85.7	40.5	

SOURCE: Derived from Table Al



Percent Changes in Average Cost of MLS Dwellings, Selected Averages of Urban Areas

	Percent (		Percent Change 1969-1972			Percent Change 1972-1975		,	
	Nominal	Real	Nomi	inal	Real	Nomi	nal	Real	
Ottawa to West Coast :	35.2	19.9	18	3.6	6.5	71	7	29.9	
Montreal to East Coast	19.2	5.8	26	5.3	13.4	32	. 3		
Atlantic Provinces	30.4	15.7	18	3.3	6.2	51	.7	14.7	
Quebec	8.0	-4.1	34	1.3	20.5	12	. 8	-14.7	
Ontario	30.8	16.0	20	).9	8.5	58	.3	18.9	
Manitoba Saskatchewan	26.3	12.0	9	.5	-1.7	90	.6	44.1	
Alberta British Columbia	55.1	37.6	18	.7	6.6	97	. 8	49.7	
All 25 Urban Areas	31.3	16.5	20	.5	8.1	62	. 3	22.7	

SOURCE: Derived from Table A5



Percent Changes in the Average Cost of

Dwelling Units Financed Under the National Housing Act

Selected Averages of Urban Areas

	Percent Change 1966-1969		Percent Change 1969-1972		Percent Change 1972-1975	
	Nominal	Real	Nominal	Real	Nominal	Real
Ottawa to : West Coast	32.5	17.5	10.4	-0.8	63.2	23.4
Montreal to East Coast	24.3	10.3	10.0	-1.3	39.2	5.3
Atlantic Provinces	34.6	19.5	13.2	1.6	28.8	-2.6
Quebec	14.0	1.2	6.8	-4.1	49.7	13.2
Ontario	35.6	20.3	13.5	1.9	54.0	16.5
Manitoba Saskatchewan	25.7	11.5	-6.6	-16.2	76.1	33.3
Alberta British Columbia	28.3	13.8	14.2	2.5	81.0	36.9
All 25 Urban Areas	30.5	15.8	10.3	-1.0	57.4	19.2

SOURCE: Derived from Table A8



groups - namely existing owner-occupants through capital gains - have benefited from the price increases. Nevertheless, the Task Force wishes to take the position that the price increases noted in this chapter are a cause of serious concern. Over the 1972 to 1975 period personal disposable income per capita increased at 51.7% which is significantly less than the nominal housing price increases in the majority of areas examined in this chapter.(1) Thus, not only is owner-occupied housing for the prospective purchaser now significantly less affordable relative to other goods and services, it is also less affordable in an absolute sense.

# C. Dwelling Lot Costs as a Percent of Dwelling Prices

Table 2.5 illustrates the importance of lot costs in total housing prices, again using data from newly constructed single detached dwellings financed under the National Housing Act. Table 2.5 shows that in every area with the exception of those in the Province of Quebec, lot costs have increased as a component of housing prices. Table A9 of the Appendix shows that this change is gradual and consistent among the cities listed and is not necessarily more predominant in the boom years of the 1970's. A large increase in the importance of lot costs is shown in the western region (Ottawa to west coast) while very little is shown for cities in the five eastern provinces (Montreal to east coast). It is also shown in the table that lot costs as a percentage of total dwelling cost were highest for Alberta and British Columbia in 1976 at 37.7%, which is more than double the corresponding figure for 1966.

#### D. Rankings by City

Table 2.6 completes this chapter with a ranking of urban areas complied from the previous tables. Rankings are given for lot costs (1975), change in lot cost (1972-1975), NHA dwelling prices (1976), percentage change in NHA dwelling prices (1972-1975), MLS dwelling prices (1976), percent change in MLS dwelling prices (1972-1975), and lot cost as a percentage of total cost (1976).

Other than showing clearly that cities in the Atlantic Provinces and the Province of Quebec are near the bottom in terms of lot and housing prices and in terms of price escalations, Table 2.6 shows little in the way of clear geographic patterns. The table does not, for example, strongly support the notion that the largest cities necessarily

<sup>(1)</sup> The percent change in personal disposable income per capita is derived from CMHC, Canadian Housing Statistics 1976, Table 23.



Lot Cost as a Percentage of Total Cost: New Single
Family Detached Dwellings Financed Under the National Housing Act
Selected Averages of Urban Areas

	1966	1971	1976
Ottawa to			
West Coast	18.6	25.1	33.4
Montreal to			
East Coast	13.1	15.4	14.7
Atlantic Provinces	13.4	18.7	19.6
Quebec	10.7		
Quebec	12.7	12.0	9.9
Ontario	19.8	26.0	33.7
Manitoba			
Saskatchewan	14.1	19.2	26.2
Alberta British Columbia	18.1	26.8	. 37.7
All 25 Urban Areas	17.2	22.8	28.9

<sup>\*</sup> The term cost in this and other NHA housing price data refers to the cost to the consumer (i.e. price) rather than the cost of production. This terminology is awkward but represents the standard terminology of NHA data sets.

SOURCE: Derived from Table A9



hange ling -1975	(103.3) (86.7) (81.6) (78.2) (77.0) (75.1) (75.1) (75.1) (75.1) (75.1) (75.1) (64.6) (64.0) (63.4) (65.4) (65.4) (64.0) (63.4) (65.1) (56.8) (56.8) (56.9) (
Percentage Change in NHA Dwelling Prices 1972-1975	Victoria Calgary Winnipeg Toronto Edmonton Kitchener Regina Saskatoon Thunder Bay Peterborough Ottawa Hamilton Montreal Vancouver Sault SteMarie St. Catharines Kingston Quebec City Moncton Sherbrooke London Halifax Windsor Saint John Sudbury
ling s's	(66,272) (61,428) (60,281) (59,999) (59,453) (57,417) (51,352) (51,138) (50,663) (48,860) (48,860) (48,860) (48,666) (42,135) (40,637) (40,637) (40,637) (35,454) (35,454) (35,454) (35,454) (36,037)
ge NHA Dwelling Prices 1976 in	Victoria Edmonton Thunder Bay Calgary Ottawa Toronto Winnipeg Hamilton Kitchener Peterborough Sault SteMarie Vancouver St.Catharines Kingston London Subbury Regina Saskatoon Saint John Windsor Halifax Montreal Ouebec City Moncton Sherbrooke
Percentage Change in Lot Cost 1972-1975	(187.7) (154.8) (126.9) (126.9) (116.7) (115.4) (115.4) (113.7) (114.0) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.5) (102.6) (103.6
Percen in L 197	Victoria Winnipeg Hamilton Vancouver Kingston Kitchener Ottawa London Sault SteMarie Toronto Calgary Edmonton Peterborough St.Catharines Saint John Regina Thunder Bay Saskatoon Montreal Windsor Moncton Sudbury Halifax Quebec City Sherbrooke
t per Linear frontage 5 in \$'s	(552.50) (473.76) (348.12) (341.37) (329.64) (318.95) (275.06) (264.75) (264.75) (264.75) (264.75) (264.75) (264.75) (264.75) (264.75) (264.75) (264.76) (266.86) (216.09) (195.81) (195.81) (195.81) (195.81) (108.80) (104.20) (104.20) (104.20) (103.53) (51.69) (30.66)
Lot Cos foot 197	Hamilton Toronto Vancouver Kitchener Victoria Ottawa Thunder Bay Kingston London Calgary Winnipeg St. Catharines Edmonton Peterborough Windsor Sault SteMarie Sudbury Regina Saskatoon Halifax Saint John Moncton Oucbec City Montreal Sherbrooke
ank	22222222222222222222222222222222222222

SOURCE: Tables Al-A9



Rank	MLS Dwelling Prices 1976 in \$'s		Percentage Change in MLS Dwelling Prices 1972-1975	ces	Lot Cost as a Percent of Total Cost'on an NHA Dwelling 1976	Percent on an NHA 1976
	Calgary	24	Vancouver	(104.9)	Hamilton	(50.8)
7	Vancouver	869	Victoria	(104.2)	Toronto	(404)
m	Toronto	$\infty$	Calgary	(102.7)	Vancouver	(47.04)
4	Edmonton	(95609)	Saskatoon	(101.5)	Victoria	(30.05)
5	Victoria	90	Regina	(99.1)	Kitchener	(34 5)
9	Ottawa	CI	Edmonton	(79.5)	St. Catharines	(33.1)
7	Hamilton	022	London	(19.0)	Thunder Bav	(32.7)
00 (	Kitchener	(50195)	Winnipeg	(71.1)	Calgary	(32.5)
o. (	Saskatoon	468	Toronto	(70.7)	Winniped	(32.2)
07	London	(44502)	Peterborough	(68.8)	Edmonton	(31.2)
-10	Kingston	(43834)	Saint John	(68.7)	London	(30.4)
12	Thunder Bay	(43694)	Thunder Bay	(68.2)	Kingston	(30.4)
	Peterborough	(43164)	Hamilton	(62.9)	Ottawa	(30.0)
14	Regina	(41955)	Kingston	(65.0)	Sault Ste Marie	(29.6)
CT	Hailtax	(41438)	St. Catharines	(9.09)	Sudbury	(28.9)
9 T	Montreal	(39783)	Kitchener	(58.7)	Peterborough	(27.6)
/ T	Winnipeg	(39668)	Ottawa	(52.9)	Windsor	(27.3)
D T	Windsor	(38646)	Windsor	(51.1)	Regina	(24.3)
2 5	st. Catharines	859	Halifax	(44.7)	Saskatoon	(22.0)
2 2 5	Saint John	848	Montreal	(41.7)	Moncton	
17 23	Suabury	189 189	Moncton	(41.6)	Halifax	(19.6)
22	Sault Ste Marie	(36472)		(29.5)	Saint John	
27	Wester City	40 D	Sault Ste. Marie	(29.4)	Quebec City	
# L	Moneton	358	Sherbrooke	(19.3)	Montreal	(10.0)
72	Sherbrooke	(30939)	Quebec	(-22.5)	Sherbrooke	(6.8)

Tables Al-A9



have the highest prices or the largest price increases.

This chapter's purpose has been to document the common trends and inter-city differences in the price changes and price levels of both dwelling and lot prices. The analysis which follows will attempt to explain why the inter-city differences and similarities revealed by these data have occurred.



### Value of Land

. Scarcity and the Derived Residential land derives its value from the housing services that are produced (or will be produced) by that land in combination with physical structures. Land and structures, however, are fundamentally different in the critical attribute of scarcity. While producing more structures this year does not reduce the potential number of structures which can be produced in the future, the amount of developable land in any urban area within a specific commuting time from employment centres is fixed.(1) In this sense land is scarce. Land has a limited capacity, for example, to house people at a density of 20 persons per acre within 20 minutes commuting time of an urban core. Once land within that commuting distance is completely developed at that density, continued population growth will dictate either that new residents must reside further from the urban core or that land within the 20 minute boundary must be redeveloped at higher densities. Both changes tend to occur simultaneously in growing urban areas.

> Land that is close or interior to urban growing areas thus possesses two important characteristics. First, it is scarce and second, locational advantage makes it superior to land that is far away from any urban area. These characteristics taken together produce a premium on this land. One consequence of this scarcity that is of particular importance for our present purposes can be illustrated by way of a simple stylized example. Suppose that the demand for housing at a given distance from the urban core increases to the extent that consumers are willing to pay a price of 10% more than in the previous year while the cost of building structures remains constant. Since by assumption, the production costs of structures have not changed, there will be no change in the value of the structure. A new structure can always be created at the old cost. Land, however, is scarce and the 10% higher price will be reflected entirely in the value of the building lot. But since the value of the lot is only a small proportion of the total value of the house, this means that the value of the lot will increase by more than 10%. If the lot component of housing price was 25% of the total value, for example, the 10% increase in total value means a 40% increase in lot prices in our simple example. Corresponding negative price changes would occur if demand declined.

<sup>(1)</sup> Note that investments in rapid transit facilities, etc., could increase the amount of land within a fixed commuting distance over the long run.



This "leverage effect" is illustrated in Figure 3.1 where it is assumed that the initial price of a dwelling unit is \$80,000 of which \$20,000 is the price of the lot. Under the assumption of constant construction costs, a 10% increase in dwelling unit price to \$88,000 increases the lot price by the full \$8,000 which is 40% of the initial price.

Construction costs do not, of course, remain constant but from the example it may be clearly seen that if total dwelling prices rise proportionately faster than the cost of structures, then the price of a serviced lot must increase as a percentage of the total dwelling unit price. Such an increase in the percentage of final dwelling price accounted for by lot price was shown to have taken place in all urban areas from Ottawa to the west coast in Table 2.5 of Chapter 2.

It should also be noted that the same argument suggests that the price effects of supply restrictions will fall mostly on lot prices as these restrictions create an additional form of scarcity. Restrictive subdivision approval processes, for example, will likely increase serviced lot prices far faster than total housing costs on a percentage basis. Further discussion of this effect is reserved for later chapters.

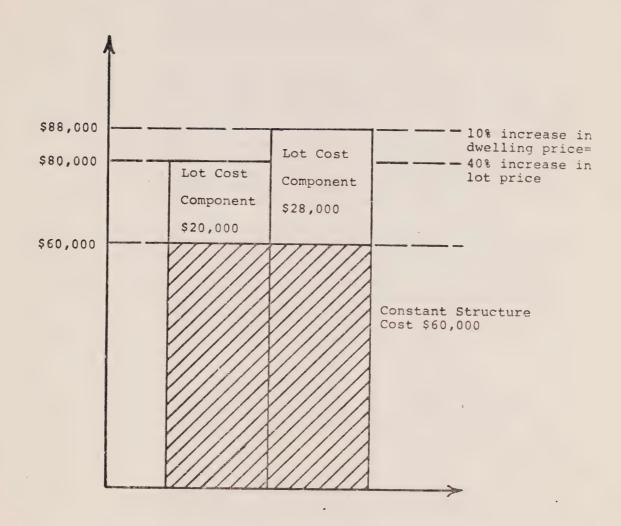
## B. Durability and the Asset Demand for Land

Because land is durable, its value will depend both on the value of current services it is providing and on the value of services it is expected to provide in the future. As with any long-lived asset, the expected value of future services plays a predominant role in determining the current price of land. This predominant role of expectations explains some otherwise puzzling aspects of land price.

Perhaps the least well understood feature of land price is the tendency for the price of raw or undeveloped land to rise persistently. This is explained by noting that even land that has no valuable current use will command a price in the market, sometimes quite a substantial price, in reflection of some expected future high-valued use. In order for this price to exist, a purchaser must believe that buying or investing in this land will yield a return, even if the land were sold before the time when its development is anticipated. This expected return in the early years after purchase, before development occurs, must be in the form of a rise in the price of land - a capital gain, in other words. If the rise in price was not expected, then the purchaser would obviously not buy the land, because it could be bought next year or the year after, for the same price. By the same



AN ILLUSTRATION OF THE "LEVERAGE EFFECT"
THE EFFECTS OF A 10% INCREASE IN DWELLING PRICE WITH
CONSTANT CONSTRUCTION COSTS.



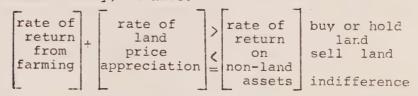


argument, land that is now undeveloped but selling above its agricultural or raw-land value (because it is expected to be put into urban residential use at some time in the future) can never be expected to diminish in price; its price must be expected to rise continually. When price doesn't rise - and clearly we do sometimes observe undeveloped land falling as well as rising in price - it can only be because expectations are not met.

The basic processes at work in the market for undeveloped land can probably be best illustrated by a simple example constructed from an imaginary world in which there is little uncertainty concerning future events. In such a world, raw land will tend to be supplied to the development process in a manner that results in the rate of return to owning land being equal to the rate of return that a land owner could obtain from other assets of equal risk (e.g., common stocks).

The rate of return on raw land decomposes into the rate of return earned from farming that land plus the rate of price appreciation on that land. If the sum of these two is less than the rate of return that could be earned on alternate assets, owners will tend to sell land and invest their funds elsewhere. If the sum is greater than the returns to alternate assets on the other hand, owners will continue to hold land.

Schematically, we have:



If, for example, the return on common stocks is 10% per year and the return from farming is 5%, land investors will wish to buy land if they believe that land will on average be appreciating at a rate greater than 5% per year.

In urban areas, the value of land in residential use far exceeds the value of land in farming. The former can easily be 30 times the latter in our larger urban areas. The point of the previous paragraph is simply that the behaviour of land investors will tend to cause a gradual transition from farming to residential value over a long period of time based on our imagined assumption that investors have good foresight. Suppose, for example, that a certain piece of farm land will be



required for residential use in the year 2000 at ten times the price it is presently worth in farming. Present land investors will be quick to bid up the price of that land in excess of agricultural value. If investors have good foresight, therefore, we should tend to observe the price of land around growing urban areas beginning to appreciate above agricultural value 10 to 30 years prior to development and continue to appreciate at a gradual rate up until the decision to develop. Note again that land prices should never fall in such a world. Land investors will thus tend to even out the rate of price appreciation by beginning the process years ahead of development.

The optimal time to develop is also determined within this process. The holding of raw land off the market as previously noted will occur if the expected rate of return from withholding this land is greater than the rate of return on alternative assets of equal risk. This expected rate of return is a function of both the current market price of land as well as expected prices in the future. example, if there is a surge in the demand for residential units today, then more land will be supplied today, as current prices rise, provided that basic expectations about future prices are unchanged. If future land prices are also expected to rise a supply response as a result of current price increases may, however, not necessarily be forthcoming. The timing of development depends on the precise relationship between the change in the current price and the change in price expectations regarding the future. Alternatively stated, the optimal time for development has arrived when the expected returns from continuing to hold land fall below the expected returns on holding alternative assets of equal risk.

As the anticipated time at which a parcel of land is expected to be ripe for building comes close, a number of development processes must begin. These may include applications for zoning or subdivision, and possibly the provision of various servicing facilities. Each of these aspects of development takes resources which cost money, so that each must have been (or should have been) taken into account when the earlier prices of the land were established. As long as the land is still not yielding any housing services an annual capital gain on the underlying investment (including these subsequent development expenditures) must be expected.

When residential land is finally built upon, the property need no longer be expected to yield a



capital gain for it to have value. Now, the asset is ready to yield a flow of services with some current value. If the value of these services is not expected to change in the future, and if the rate of return on assets generally does not vary, then the capital value of the property should remain more-or-less stable. When building costs and other development costs are deducted from this capital value, a "residual" land value is left, which acts as a target value for the land market as prices are set on land earlier in the development process.

C. Economic Rent ("Unearned Increment", "Residual Value")

The basics of this process seem to be fairly well understood. What is often misunderstood is the causality at work in this process. It is often suggested by some analysts, for example, that land investors are the cause of high residential land prices. Such a point of view reveals no understanding of what economists call economic rent or simply rent. Rent is defined as the difference between the price commanded by a resource (human or non-human) and what it could earn in its next best opportunity. For our purposes, let us define the difference between the price of land in residential use and in farming use as the rent component of residential land prices. ("Rent" is often known by a number of aliases including "unearned increment" and "residual value". But since these latter two terms are often used in different ways by different people we will stick with the term "rent"). Land that is close or interior to growing urban areas possesses two characteristics: first, it is scarce as noted above and second, locational advantages make it superior to land that is far away from any urban area. These characteristics taken together produce rents on this land. Additional rents can be generated by restrictive approval processes or monopolistic developers as will be discussed later. This rent component of land price is not at all insignificant in large urban areas and can easily grow to the point where land in residential use is worth 30 times the value of land in agricultural use.

The important point is that this rent arises from the scarcity and from the locational advantages of particular land parcels. It does not arise from the activities of competitive land investors but rather quite the opposite. Land investors exist because of the land rents that will eventually be associated with farmland proximate to growing urban areas.

B. COMPLETE STATE OF COMPLETE STATE OF THE PROPERTY OF THE PRO



D. The Long-run Determinants of Residential Land Prices

The discussion so far in this chapter has dealt with the fundamental principle of residential landprice determination: that the price of land is derived from the market value of the housing services to which the land ultimately contributes. The market value of housing services in any urban area and at any location within that area in turn depends on how heavy the demand is for housing in that city and at that location within the city, and on how many housing units of various kinds are available. In short, the price of housing services at any time depends on the relationship between the demand for housing and the supply. For any given level of demand, a larger supply of services will mean that the price of a standard unit of housing will be less. This doesn't necessarily mean that people will spend less of their budget on housing; it means simply that a dollar spent on housing will buy better housing, or more housing services.

To explain the level of house prices - and therefore land prices - in any given urban area requires an understanding of both the demand forces in that area and the factors governing supply. The condition of demand and supply is not determined by local circumstances alone, but there may be some specific local or provincial factors that cause price differences among otherwise quite similar cities.

For example, regions experience different growth rates and are subjected to different economic pressures. Demand in a lagging region might be especially weak because of relatively low income levels or outward population movements. Or, the rate at which land is made available for development may vary from region to region, because of different provincial planning legislation or different municipal attitudes towards development. These factors will affect the supply of land for housing, and differences in their supply effect across the country will help contribute to house-price differences.

On the other hand, many of the changing influences on demand and supply are country-wide in their effects. These include such factors as the general state of the national and international economy, citizen attitudes towards certain kinds of developments, the municipal response to fiscal pressures, federal tax legislation and the structure of land development industry.

During the course of our work, we have examined the role that many of these basic factors appear to



play in the determination of land prices. The results of this study are summarized in the subsequent chapters of this Report.

It is necessary to stress, however, that changes in these underlying demand and supply factors tend to change house and residential land prices only slowly. Abrupt movements in the price of housing and in the residual price of land, such as we experienced in Canada early in the seventies, cannot be explained simply by changes in the structure of the land development process, or by changes in our demographic profile. Because this is not well understood, we devote the whole of the next chapter to a discussion of short-run price fluctuations and the important role played in the existing stock of housing in determining prices in the short run.(1)

In Chapter 5 we examine more explicitly the factors responsible for the price boom of 1972-75. Only after that, in later chapters, do we return to a consideration of fundamental supply factors that may influence the long-run level of house and land prices.

<sup>(1)</sup> For a more detailed discussion of the determinants of land prices, in both the short and the long run, the interested reader is referred to Chapter 3, Research Studies Volume.



A. The Production of New Housing Versus the Total Housing Stock (Existing Stock plus New Production)

In spite of the importance of the level of housing and residential land prices in and around our cities, it is not simply the level of these prices but their rapid change over time that most attracts our attention. In fact, it was primarily the rapid upward rise in these prices over a short two or three year period beginning about 1972 that led to the formation of this Task Force. In the future, the deterioration in inflation-corrected real housing prices that has already begun may turn out to be one of our most pressing concerns. Rapid or short-run price changes that are generally unanticipated wreak havoc among our savings and investment plans, cause unexpected redistributions of wealth and, in recent years, have led to heavy personal financial commitments in dwelling units, commitments that may prove difficult to meet as incomes fail to reach expected levels.

The most common explanations of the recent price boom have focused on problems in the supply of new housing, with both monopolistic developers and sluggish municipalities having been frequently fingered as culprits who have slowed down, or at least not expanded, the rate at which serviced residential lots were made available to the building market. In our view, any such explanation of short-run price fluctuations that concentrates on the rate at which newly serviced land is being supplied is based on a fundamental misinterpretation of the land and housing market. Supplyretarding actors in the land market, such as monopolists or reluctant municipalities, may indeed have important effects on housing and land prices over long periods. But the primary explanation for rapid, short-run price movements of the sort we have recently experienced does not lie in the supply of new housing, for reasons that we now turn to examine.

Fundamentally, the reason why changing conditions of demand for or supply of newly serviced land in an urban market will not dramatically influence land or housing prices within periods of several years or less is that these prices are determined by the forces of demand and supply throughout the whole area, and not just by conditions on the developing fringe. As can be seen from Table 4.1, the annual production of new dwelling units in and around cities was only a small percentage of the stock of dwelling units that already existed in those cities in 1974 - under 10% in all cases illustrated and generally in the order of 5%. Because, in most urban areas, the stocks of existing dwelling units and residential land already in use are twenty or thirty times as large



#### STOCKS AND FLOWS, 1974 (1)

Calgary       149,738         Chicoutimi-Jonquiere       26,733         Edmonton       154,621         Halifax       57,312         Hamilton       137,248         Kitchener       75,945         London       82,133         Montreal       778,962         Ottawa-Hull       180,524         Quebec City       99,886         Regina       47,400         St. Catharines-Niagara       60,801         Saint John       22,759         St. John's       21,369         Saskatoon       42,929         Sudbury       30,051         Thunder Bay       34,957         Toronto       773,111         Vancouver       235,456         Victoria       41,491         Winnipeg       169,984	7,085 1,467 7,668 3,255 7,519 4,387 3,724 27,726 15,036 4,422 1,372 4,109 1,230 1,415 1,274 786 1,171 39,448 15,814 4,000 2,293 8,680	4.7 5.5 5.0 5.7 5.5 5.8 4.5 3.6 8.3 4.4 2.9 6.8 5.4 6.6 3.0 2.6 3.3 5.1 6.7 9.6 3.4 5.1

(1) It should also be noted that 1974 was a record-breaking year for dwelling completions in Canada at 257,000 units.

SOURCE:

C.M.H.C., Canadian Housing Statistics 1976, Tables 7 and 121. See these tables for precise definitions of each data set.



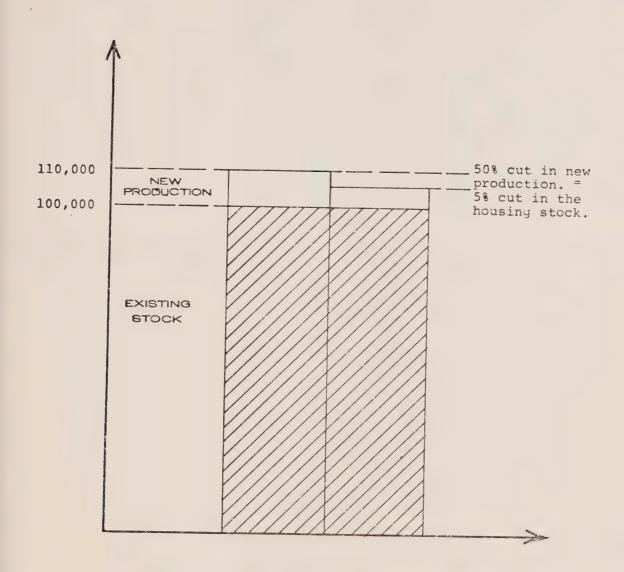
as the annual supply of new dwellings or newly serviced residential land, the opportunity to provide for new housing in the face of rising accommodation prices through the redevelopment of existing residential property, or through more intensive use of existing dwelling units, is relatively great. This capacity for the redevelopment or more intensive use of the existing housing stock helps to stabilize the prices of housing and land even when sudden changes in new inward migration or household formation increase the demand for dwelling units in any given urban area with no increase in the rate of new-land supply, or when the annual supply of newly serviced land is reduced because of government-approval delays, inadequate servicing facilities, or the emergence of monopolistic developers.

If the increased demand or reduced supply persists, the cumulative effect over a period of many years will necessarily be to raise housing and land prices above the level they would otherwise reach; but, in the few years after the demand or supply changes, the price effect will likely be muted by adjustments in use of existing stock. Consider the following example. Suppose that in some urban area annual production of new dwelling units is as much as ten percent of existing units, and that the supply of these units is suddenly reduced by 50 percent with no change in the annual new demand for housing. This 50 percent reduction in the production of new housing is not, of course, a 50 percent reduction in the "supply of housing". It is in fact, only a five percent reduction in the supply of housing (five percent equals 50 percent of ten percent). In this case, only a five percant intensification a year in the use of existing residential land will be sufficient to offset the effect of the reduction in new supply. A five percent intensification means that housing which previously held 100 persons now holds 105 persons. Of course, there must be some price rise in order to encourage the more intense use of existing property, but this rise is much smaller than would occur if there were no adjustment in the use of existing stock.

This dominating effect of the existing stock is shown in Figure 4.1 where it is initially assumed that new production will add 10,000 units to the existing stock of 100,000 units. A 50 percent cut in this new production would then leave the end-of-year housing only about five percent short of what it otherwise would have been.



The Effects of a 50% Cut in New Housing Production on the Housing Stock (assuming New Production was Originally 10% of the Stock.)





Many people are skeptical about this argument when it is presented on a theoretical level. Yet in many applied situations, those same individuals are quick to recognize the principle involved. Perhaps one example is in order. Suppose we were to ask a person how the sudden introduction of 100 new families into an urban area would affect the price of housing in that area. Before answering, that person would likely want to know the size of the urban area in question. Alternatively, he might respond that the 100 new families would generate no measurable effects in Toronto but would likely generate large price increases in Fort McLeod. Intuitively, he would know that the price effects would be in inverse proportion to the size of the existing housing stock. The large stock in Toronto could easily absorb 100 additional families while the small stock in Fort McLeod could not. A cut in new production of 100 units is, of course, essentially the same as the introduction of the 100 new families. In both cases, the size of the price effects are determined largely by the size of the number 100 relative to the size of the existing stock of housing.

# B. The Substitutibility Issue

The precise degree to which new house prices would rise following a cut in new production as noted above depends on two important factors. The first is the degree of substitutibility between new and existing residential dwelling units. If the degree of substitutibility is high, the market for newly constructed and existing residential units can be considered one market. If, on the other hand, the degree of substitutibility is low, two interrelated but somewhat distinct markets exist. In the latter case the moderating effect of the existing stock on the price of residential lots and newly constructed dwelling units will be smaller. The disruption in new production would thus lead to large increases in the price of new housing while leaving existing housing relatively unaffected. If the degree of substitutibility were high, large cuts in new production would lead to relatively small increases in the price of both new and existing housing.

The data in Table 4.2 on recent price indices strongly support the view that the price of old and new dwelling units move together.

Table 4.2 shows housing price changes from 1971 in three different times series. The first column gives the N.H.A. series for new houses financed under N.H.A. and tends to reflect lower priced new houses in the cities listed. The second column gives the M.L.S. series which is completely



### Price Indices, 1971-1976

		% Annual Increase 1971-1976 of Price of M.L.S. Dwelling	1971-1976 of Stat.
Edmonton	19.0	20.0	10.7
Edmonton	19.0	20.0	19.7
Calgary	20.2	24.3	19.4
Winnipeg	18.9	16.5	14.8
Toronto	12.0	14.6	12.6
Ottawa	13.9	13.1	14.0
Montreal	12.5	10.9	15.0
Average	16.1	16.6	15.9

SOURCE: Canadian Housing Statistics, CMHC, various years.



dominated by prices of <u>old</u> houses. The third column gives the Statistics Canada New House Price index which is an average of <u>new</u> house prices over the entire price range and is not limited to the lower priced houses under the N.H.A. series.

It is apparent from Table 4.2 that these three series move rather closely together. On average, the M.L.S. series exceeds the Statistics Canada series by only .7% and the N.H.A. series by only .5%.

In recent years, an increasing amount of empirical research has accumulated that helps us to understand the sense in which an urban area may be regarded as one large housing market even though individual neighbourhoods within the city may have distinctive features. Much of the research is grounded in the view that a dwelling unit can best be defined in terms of various attributes associated with the property. These attributes include such factors as the size of the dwelling, the size of its lot, the age of the building, the nature of its construction, the type of neighbourhood in which it is situated, the accessibility to various public facilities, the nature of the environment and so on. When a dwelling unit is bought or sold it is in fact some cluster of these attributes that is bought and sold, and the market price is determined by the magnitude and mix of the attributes.

If the price of a dwelling unit is indeed a function of these various attributes, then it should be possible to determine the extent to which different amounts of any one attribute contribute to or detract from the market value. Much empirical research on housing markets has been devoted to precisely this point, with multiple regression equations having been used in study after study to estimate the value of varying an attribute by some unit amount. These studies have been aimed at estimating "hedonic" price functions, where the word "hedonic" suggests that the real benefit or value of a dwelling unit derives from the separately listed attributes.

Although house prices and types may vary from neighbourhood to neighbourhood, if each attribute has only one price attached to it across the whole of the area, then it makes sense to regard the whole area as only one market. The test of the one-market hypothesis lies in the adequacy of the attributes' function in explaining house-price variations. If such a function, with each attribute assumed to have the same value throughout the



urban area, does not explain the variation in house prices across the sample area, then doubt is cast on the one-market view, and it might be more appropriate to think of the city as consisting of more-or-less separate housing markets.

In the reported research, the attribute functions applied to whole cities work well in explaining dwelling prices. Typical of these studies is one that was done in Winnipeg.(1) The authors conclude that "The hedonic price functions... accounted for a very large proportion of the variance of home prices. ...We view our hedonic price estimations as satisfactory in terms of explaining the variability of house prices."(2)

A more direct test of the one-market versus segmented markets hypotheses was conducted by two British economists for the English city of Bristol. (3)

Two tests of the one-market hypothesis were conducted in the study. The first test was to permit attributes to take different prices within each of what were prime candidates as separate submarkets. The result of this test was that housing price differences were not better explained using the assumption that attributes were priced differently in different "neighbourhoods". second test was to place a separate variable for each possible sub-market in the overall one-market attributes equation to see if this neighbourhoodspecific variable was important in explaining the price of houses. It turned out that it was not. With respect to the first test, the authors concluded: "The subdivision of the market into neighbourhood groupings consequently did not significantly improve the explanation of house prices"; (4) with respect to the second test they found "that the general assumption of a number of sub-markets was invalid". (5) Their overall conclusion is that "The relative price of houses

<sup>(1)</sup> Carvalho M, Hum D, Sahay K, and Falconer D: "On the Determinants of Residential Property Values". Plan Canada, Vol. 16, No. 3 and 4 (Sept./Dec. 1976).

<sup>(2)</sup> Ibid., pp. 195-6.

<sup>(3)</sup> Ball MR and Kirwan RM: "Accessibility and Supply Constraints in the Urban Housing Market". Urban Studies, Vol. 14 (1977).

<sup>(4)</sup> Ibid., p. 22

<sup>(5)</sup> Ibid., p. 22



throughout the area could be explained by variations in their attribute mix (once accurate measures of size and condition were available) with uniform prices. The failure to identify separate price structures therefore justifies the conclusion that the owner-occupied sector of the Bristol housing market was not divided into sub-markets." (1)

The evidence therefore appears to warrant our considering each urban area as one housing market rather than a series of sub-markets.

# C. The Intensification Issue

The degree to which new and existing house prices would rise following a cut in new production also depends on exactly how rapidly a more (or less) intensive use of existing residential land will occur in the face of price changes. To understand the importance of this point, consider an area in which, typically, demand for accommodation is expanding at five percent a year, and in which this new demand is being met by the production of new housing, also at five percent a year of existing stock. Ignoring inflation, the price of new housing should remain approximately constant in this area.

Now suppose that for some unforeseen reason, new housing production falls by a full 50 percent in the current year. A strike in the construction industry or a suddenly-more-restrictive approval process might cause this reduction. Because the overall supply of housing in this area includes the existing stock, and not just one year's new production, this sudden supply restriction should be regarded as a 2.5 percent fall in housing supply, and not as a 50 percent fall.

The price effect of this reduction in supply, below what it would otherwise have been, will depend on how rapidly the use of the previously existing residential area is intensified. At one extreme, if physical or legal restraints absolutely prohibit any intensification of use, then price must rise sufficiently to eliminate one-half of the new demand for dwelling space. This could mean large price increases during the year. At the other extreme if physical or legal constraints are negligible, and intensification occurs with only the hint of a price rise, then the cutback in new supply will have virtually no price effect in the first year.

<sup>(1)</sup> Op. cit., p.30(3)



The question is, where typically would the balance be struck between the annual price increase and the annual percentage change in residential-use intensity? Some economists believe that an intensification in the order of two percent a year could be achieved with no more than a three or four percent increase in dwelling prices. (They would argue that there are usually vacancy rates in apartments in the order of one percent that help permit intensification, and that in the face of modest price rises young people especially, who Otherwise would take an apartment on their own, will remain with their parents or double up in apartments.) Others would argue that the typical response would likely involve a little less intensification in any one year and a little higher price rise. There seems to be quite widespread agreement, however, that some stock adjustment, or intensification, will occur, and that even dramatically large reductions in the rate of newland supply will not lead to correspondingly dramatic changes in housing prices, in the short run.

However, land prices, for reasons we have noted above in Chapter 3 will fluctuate more than housing prices, on a percentage basis. This greater volatility occurs because the price of land is only a small percent of the total price of a house, and it is a residual, derived from the price of houses. Thus a three percent increase in the price of housing would get translated into a 12 percent increase in the price of serviced lots, if these lots accounted initially for roughly one-quarter of the house price and assuming none of the costs of housing production has risen.

D. The Relevance of the Stock-Flow Distinction to the Various Conspiracy Theories

The importance of distinguishing between changes in stock supply and changes in new production (flow supply) is widely accepted among land economists. Other housing and land market analysts, however, have been slow to embrace this concept. Failure to do so leads to an extremely important error, which is to significantly overestimate the role of new housing supply in causing short-run price fluctuations. Some analysts, for example, have suggested that "monopoly developers" were responsible for the 1973-1975 boom as noted earlier. Others have suggested that government impediments to development were to blame. Both theories are asserting that disruptions in new supply were capable of causing prices (both new and existing) to rise at 30-40 percent per year at the top of the boom. Economists who have adopted the stock supply viewpoint do not believe this to be the case and



immediately look elsewhere for the major explanation of the boom. The next chapter of this Report will, in fact, provide just such an alternate explanation.



The plodding forces of demand and supply that over long periods determine the level of house and residential land prices in Canada gave way in the early seventies to more aggressive and immediate forces that for a while dominated the market. Within a span of only a couple of years, the relative desirability of land and of residential property as an asset increased dramatically: owners of land and developed property would sell only at higher prices; buyers were prepared to pay prices for property that often exceeded the asking price in order to ensure that they and not someone else was the successful bidder. Although the intensity of the price rise during these years varied from region-to-region, the phenomenal change in attitude that underlay the price boom was nation-wide.

Across the country, as the data in Table A5 show, the Multiple Listing Service (MLS) dwelling-price index rose 62.3 percent between 1972 and 1975, whereas it had increased only 20.5 percent between 1969 and 1972, and only 31.3 percent between 1966 and 1969. In Montreal, where the overall price rise was more moderate, the change between 1972 and 1975 was still 41.7 percent compared with virtually stable MLS prices from 1966 through to 1972; and in Halifax, where again the boom was more constrained than in the central and western parts of Canada, the price increase of 44.7 percent between 1972 and 1975 was significantly above the 7.5 percent increase from 1969 to 1972 and the 29.0 percent increase between 1966 and 1969.

What happened during this period of booming prices was that housing and land were revalued relative to other assets in the market. Expectations of even higher future prices fueled a speculative bubble, while depressed rates of return on other assets cranked up the demand for residential real estate. Demand factors, which had been working away in Canada for a number of years, underwrote the widespread expectation that housing prices were going even higher, while world-wide inflation served, at least temporarily, to reduce the attractiveness of alternative forms of investment.

#### A. Demographic Factors

The most basic of the forces at work during the period leading up to the price boom was the growth in households and families, which is illustrated

<sup>(1)</sup> Many of the points made in this chapter were made in 1974 by Robert Adamson, Vice-President of CMHC, in a speech "Trends in Housing Prices and Costs 1971-1974", to the Conference Board of Canada.



#### in Table 5.1.

Of special interest is not so much the increasing rate of total family formation indicated by the data in Table 5.1 but the large increase in the rate of young family formation. Families with heads of ages 25-34 were only growing at .6% per year in the early 1960's but were growing in number at a rate of 5.0% per year in the early 1970's, almost ten times as fast. The reason this would seem to be important is that these young families are the important net demanders of additional housing and owner-occupied housing in particular.

Some of this increase results from the well-known post-war baby boom and should have been foreseen. But many of the participants in the housing industry, including planners as well as developers, have told the Task Force that the degree of family formation was not anticipated to be nearly as large as it was. To the extent that this is true, demographic factors can be labeled as one factor that caused an unanticipated increase in the consumption good demand for housing during the early 1970's and contributed, therefore, to rapid price increases for land and housing.

Demographic factors also provide an important part of the explanation for the different behaviour of prices in central and western Canada from those in Quebec and the Maritimes. For example, between 1961 and 1971, the population of Ontario, Alberta and British Columbia increased by 23.5 percent, 22.2 percent and 34.1 percent respectively. By contrast, the growth in population in all three Maritime provinces was 7.0 percent or less over this same ten-year period, and in Quebec it was 14.2 percent, well below the Canadian average. The 1977 Economic Council of Canada Report, Living Together: A Study in Regional Disparities, from which these data are taken, notes that "for many years, the southern parts of Ontario and British Columbia have been the destinations preferred by foreign immigrants and Canadian migrants alike. Projections based on demographic trends show that by 1985 these are the only two regions where the working-age population will be increasing" (p.32). Given this background, it is quite understandable that the asset revaluation that raised house prices across Canada after 1972 had a less dramatic effect in the slower growing eastern part of the country.



### Annual Growth Rate of Families

	1956-61	1961-66	1966-71	1971-76	
All Families	2.2	1.8	2.3	2.5	
Families with age of head 25-34	N.A.	.6	3.5	5.0	
Families with age of head 25-64	N.A.	1.7	2.1	. 2.4	

SOURCE: Canadian Housing Statistics 1976-CMHC, Tables 114, 115



Institutional Factors A second set of factors that contributed to large increases in demand during the early 1970's can be loosely referred to as institutional factors. Some of these changes were actually instituted in the late 1960's but were not particularly important until the 1970's. Changes in the mortgage market were of special importance.

> Because of the majority of dwellings purchased for owner-occupancy are financed through the mortgage market, the availability of credit, the cost of credit and downpayment requirements are important variables in the demand for housing. Figure 5.1 illustrates that the value of residential mortgage approvals over the period 1967 to 1976 increased from 1.8 billion to 10.2 billion dollars per annum - a fivefold increase. This rapid increase in available funds has had an important effect on the downpayments and cost of mortgage credit available to the dwelling purchaser.

> Table 5.2 provides evidence on the easing of downpayments on NHA mortgage loans.

Table 5.2 illustrates the decline in average downpayments on NHA financed dwellings in relation to income since 1967. Although a substantial increase is recorded in 1974, it is still modest compared to downpayment requirements in the late sixties.

Although the easing of downpayments on NHA loans was significant, a more important factor was the 1970 federal legislation which allowed mortgage companies to issue privately insured high ratio (low downpayment) mortgages. Until the legislation was passed, mortgage loans of greater than 75 percent of property value were not generally permitted unless insured by CMHC. In 1972, two private mortgage insurance companies were created (a third had been in business for some time), greatly facilitating the granting of high ratio mortgages.

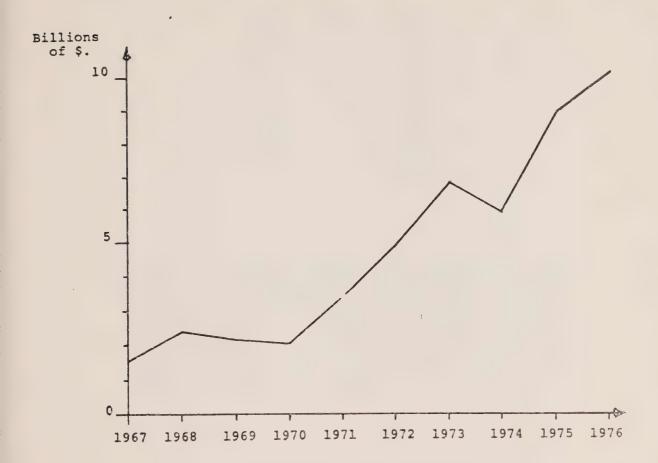
The importance of this is shown in Table 5.3.

Table 5.3 clearly illustrates the tremendous expansion of high ratio mortgages since 1967. This expansion made low downpayment mortgage loans available in market areas where the NHA maximum lending limit was too stringent.

Government policy in recent years has also tended to increase the demand for owner-occupied dwellings. As a result of tax reform in 1972, a capital gains tax was introduced. One important exemption from the tax was the capital gains accruing on an owner-occupied dwelling. The



Volume of Residential Mortgage Approval in Billions of Dollars



SOURCE: CMHC, Canadian Housing Statistics
VARIOUS YEARS



Average Down payments on NHA Loans to Median Family Income

1961	51.7
1963	49.7
1965	49.6
1967	63.1
1969	54.9
1971	42.3
1973	39.5
1974	48.9
1975	48.3
1976	34.1

NOTE: The 1974 to 1976 ratios are estimated. Until 1973 CMHC listed average downpayments. Subsequent to 1974 average downpayments for direct CMHC lending and approved lender lending are listed. The two are combined into an average with weights of .16 and .84 respectively. These weights are based on the proportions of the NHA market held by the respective groups over the period 1971-1973. In addition, the 1976 income was estimated based on increases in personal income per capita.

SOURCE: Derived from CMHC, Canadian Housing Statistics, various years.



1975	65.5	30.8	40.7	0.69
1974	56.8	37.5	57.5	69.5
1973	56.6	34.0	55.4	59.0
1972	48.6	12.6	48.6	12.8
1971	45.4	5.4	45.4	N N
1970	36.9		36.9	1.3
1969	26.5		26.5	1.1
1968	32.7		32.7	2.0
1961	20.5		20.5	eo m
	Percentage of total value of all mortgage approvals insured by NHA and private sources	Percentage of total value of all mortgage approvals insured by private sources	Percentage of total value of all mortgage approvals which are high ratio	Percentage of value of all high ratio mortgage approvals insured by private sources

SOURCE: Task Force Research Studies Volume, Chapter 7.



effect of this tax was to raise the after tax rate of return on an owner-occupied dwelling relative to other assets. This, of course, encouraged Canadians to demand more owner-occupied dwellings than would have been the case before the tax was levied. After January 1st, 1972, the only way to make a significant capital gain tax free was to own and then sell a house. Other federal and provincial programs which offered below market rates of mortgage financing for those purchasing modestly priced dwellings also served to stimulate the demand for owner-occupied dwelling units.(1) Further demand stimulus was provided by government programs which provided cash grants to dwelling purchasers.(2) The only program of note which tended to reduce demand was the federal government's Registered Home Ownership Savings Plan which allowed those who did not currently or previously own a dwelling unit tax deductible contributions of \$1,000 per annum up to a maximum of \$10,000 towards the purchase of a dwelling unit. The impact of this is to encourage households to delay dwelling purchase.

These institutional changes had two principal effects. First, exemption from capital gains taxation raised the asset demand for land and housing. Second, changes in the mortgage market enfranchised a great number of people (particularly younger people with little savings) with the ability to in the early 1970's many potential home buyers were not crowded out of the market as they would have introduced.

Incomes, Inflation and Interest Rates

While important, these demographic and institutional factors were likely minor compared to the accelerating rate of inflation accompanied by substantial growth in real incomes. Both changes are illustrated in Table 5.4. Note from this table that not only did inflation begin to accelerate in the early 1970's but real income changes were significantly higher in 1971, 1972 and 1973 than in any other year since 1962. These changes are shown graphically in Figure 5.2 for the 11 year period 1966-1976. The hatched area in Figure 5.2 depicts

<sup>(1)</sup> A notable example is the Federal Government's Assisted Home Ownership Program.

<sup>(2)</sup> Examples include the Federal Government \$500 grant for first-time owners of newly constructed modestly priced dwellings and the Ontario Government \$1500 grant to first-time purchasers of a dwelling unit. Both were in effect in 1974.



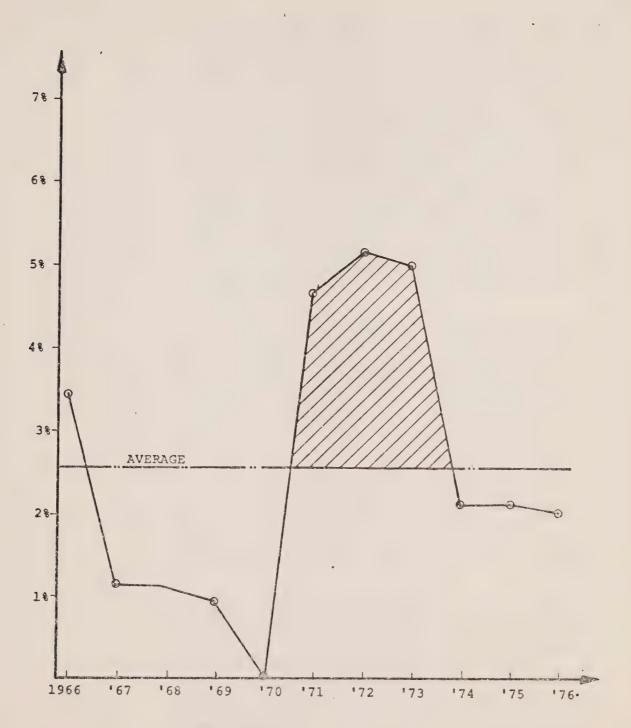
TABLE 5.4

YEAR	CPI (1971=100)	% CHANGE IN CPI	% CHANGE IN REAL DISPOSABLE INCOME PER HOUSEHOLD
1956	68.5		
1957	70.7	3.2	.3
1958	72.6	2.7	1.2
1959	73.4	1.1	.5
1960	74.3	1.2	.2
1961	75.0	. 9	-2.6
1962	75.9	1.2	5.1
1963	77.2	1.7	1.8
1964	78.6	1.8	1.5
1965	80.5	2.4	4.4
1966	83.5	3.7	3.4
1967	86.5	3.6	1.2
1968	90.0	4.0	1.2
1969	94.1	4.6	9
1970	97.3	3.3	.0
1971	100.0	2.9	4.7
1972	104.8	4.8	5.2
1973	112.8	7.5	4.9
1974	125.0	10.9	2.2
1975	138.5	10.8	2.2
1976	148.9	7.5	2.0

SOURCE: Task Force Research Studies Volume, Chapter 7.



## % CHANGE IN REAL DISPOSABLE INCOME PER HOUSEHOLD



SOURCE: Derived from Table 5.4



the extent to which the changes were above the 11 year average during the early 1970's.

Table 5.5 shows the real rate of return on various assets and both nominal and real conventional mortgage rates. Real returns on federal government bonds and on corporate bonds began to fall with rising inflation in the early 1970's and eventually became negative in 1974 and 1975. With the exception of 1972, common shares also performed poorly. At the same time that assets that might serve as alternatives to land housing were falling in yields, real mortgage rates were also falling. Since these rates essentially affect the cost of buying land and housing, this means that the returns to land and housing were rising. Thus both the fall in returns to financial assets and the increase in the returns to land and housing provided a powerful stimulus to switch asset portfolios from financial assets to land and housing. Figure 5.3 illustrates the changes that occurred in the real mortgage rate. The hatched area shows the degree to which the real mortgage rate was below the ll year average during the boom years.

In "normal" times mortgage rates and the yield on other financial assets reflect accurately anticipated inflation rates. However, if inflation is not accurately anticipated or legal or institutional rigidities exist such that mortgage rates do not accurately reflect the rate of inflation, large increases in the demand for real estate can be created. This clearly seems to have been the case across the country in the early 1970's. And it was precisely at this point that the institutional changes listed earlier came to bear. Mortgage money was plentiful in the early 1970's and high ratio mortgages removed a further obstacle to effective demand. Thus the increases in demand begun by demographic factors, by real income changes, and most importantly by the effects of general inflation were not constrained by the mortgage market as they might have been as little as five years earlier.

One factor which tended to work in the opposite direction ought to be mentioned: monthly carrying costs are certainly of importance to prospective dwelling purchasers. The high nominal mortgage rates of the 1970's and the relatively high dwelling prices result in relatively high carrying costs. This evidence tends to point towards a decrease in the demand for owner-occupied dwellings. However, although a family might be initially squeezed by high carrying costs, it would reasonably expect its nominal income to increase by at



ANNUAL REAL RATES OF RETURN ON VARIOUS ASSETS

(July annual yields)

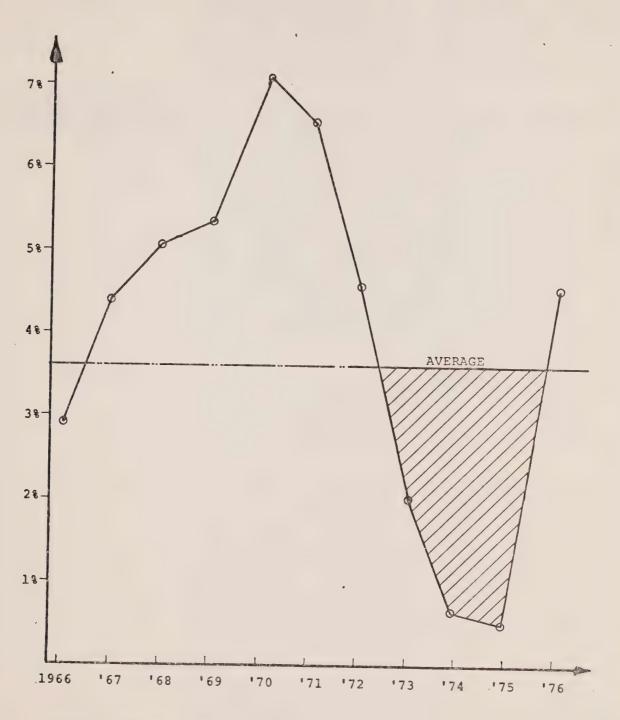
Year	Federal Government Bonds	Corporate Bonds	Common Shares (TSE)	Mortga	ntional age Rate al Real
1957	.6	1.84	-7.21	6.85	3.65
1958	1.92	2.84	-9.89	6.75	4.05
1959	4.39	4.99	12.60	6.85	5.75
1960	4.11	4.33	-6.92	7.15	5.95
1961	4.06	4.49	11.22	7.00	6.1
1962	4.24	5.56	-4.73	7.00	5.8
1963	3.42	3.77	5.46	6.91	5.21
1964	3.48	3.73	19.82	6.88	5.08
1965	2.88	3.34	8.71	7.02	4.62
1966	2.04	2.72	-8.65	7.68	3.98
1967	2.28	3.41	2.05	8.02	4.42
1968	2.49	3.92	-1.59	9.14	5.14
1969	2.92	4.27	5.12	9.90	5.3
1970	4.61	5.88	-11.04	10.38	7.08
1971	4.59	5.78	-1.79	9.46	6.56
1972	2.69	3.58	14.00	9.41	4.61
1973	.23	1.06	5.38	9.71	2.21
1974	-1.39	07	-27.68	11.60	0.7
1975	-1.46	.12	-17.43	11.35	0.55
1976	1.87	3.05		11.86	4.36

SOURCE: Task Force Research Studies Volume, Chapter 7. Derived from C.M.H.C., Canadian Housing Statistics,

various years.



## CONVENTIONAL REAL MORTGAGE RATE



SOURCE: Derived from Table 5.5



least the rate of inflation, so that the "squeeze" would be reduced over time. For example, principal and interest expenditures of \$4,000 in 1973 would imply real expenditures (in terms of 1973 dollars) of \$3,719, \$3,255 and \$3,028 from 1974 to 1976 respectively given the rates of inflation prevailing in the Canadian economy over this period.

D. Inflationary Expectations and the "Speculation Bubble" Phenomenon

The final factor contributing to large increase in demand during the early 1970's involves expectations. Although economists do not know a great deal about expectations forming mechanisms, the rapid increase in land and housing prices beginning in 1972-73 appears to have had many of the characteristics of a "speculative bubble". In such a boom an initial increase in price (brought about, for example, by an increase in demand) causes buyers to believe that future prices will increase even further. In such a situation, an increase in price causes increases in demand and, therefore, causes further price increases. The basic mechanism operating here is that buyers extrapolate past price changes into expected future price change. Since expectations of future price increases raise the expected return from owning land and housing, the asset demand for both will increase.

Similarly, some younger households enter the market earlier than they otherwise would fearing higher prices if they wait several years. In this way, some of the demographic effects that have been documented were in fact caused by economic factors and do not represent an independent cause.

It is easy to see how such a boom could have begun in 1972-73. It was likely begun by an initial increase in demand that was triggered by a combination of demographic factors, institutional factors (e.g., capital gains taxation), and the growth of real income. This increase in prices then changed expectations about the future rates of price appreciation. At the same time, real mortgage rates began to fall markedly so that the expected real cost of ownership began to fall. These changes in expectations combined with the easing of downpayment terms for mortgages stimulated demand further and thus the boom was renewed and strengthened.

The speculative boom theory is borne out by the existence of a significant amount of unusual short term activities in Toronto and in many other cities from 1972-75. Realtors tell particularly interesting stories about this period. One of the activities of speculators in the Toronto market,



for example, was to buy serviced lots and houses forward in new subdivisions and then sell before the closing date of the purchase agreement. Transactions costs on such trading are small (particularly for professional realtors), and for a while large profits were earned.

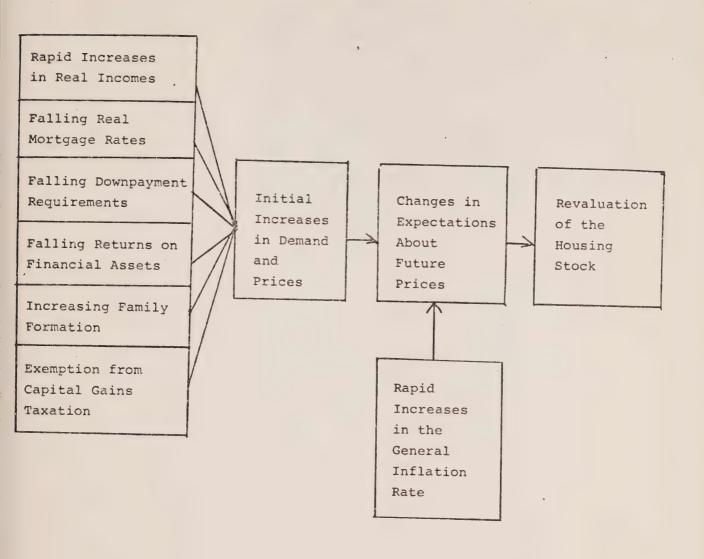
### E. Asset Revaluation

The final point to note is that our demand theory can be confusing if one perceives increases in demand as only resulting from increasing the number of people desiring to buy housing. Such a point of view might lead one to then ask where all these new people were coming from during the boom. This confusion can be avoided by thinking of the boom as a period of "asset revaluation" rather than as a period of "demand increases". Perhaps a brief analogy is in order. Suppose Cripple Creek Mines discovers a rich new vein of gold. Since the value of Cripple Creek's stock is determined by its future stream of profits, the discovery will cause an immediate revaluation in the value of the stock. Persons who were interested in buying the stock will now be willing to pay more and persons who were considering selling the stock will now demand a higher price to be willing to sell. Indeed, no transactions at all need occur except insofar as one transaction is needed to document the new value of the stock. The revaluation in no sense requires a stampede of new purchasers into the market. Similarly, the demand for housing is determined by the future stream of benefits that housing will yield, and by expectations of future prices of the house as an asset. We are arguing that the last two variables in particular received sharp upward revaluations during the boom years. As in the case of Cripple Creek, the result was a revaluation of housing as an asset for reasons that do not require the existence of large numbers of new first time home buyers.

The basic processes involved in the revaluation of residential property during the boom years are summarized in Figure 5.4. All of the factors we have discussed acted in a cumulative fashion to generate significant increases in demand during the early 1970's. This led to initial price increases which when combined with the rate of economy-wide inflation led to changes in expectations about future land and housing prices. Since present prices are partly determined by these expectations, present prices were then revalued sharply upwards.

The evidence that the Task Force has acquired in the course of its investigation overwhelmingly points to demand factors and asset revaluation as







the primary force behind the 1973-75 land and housing price boom. Had the general nature of the boom been carefully documented across the country, this would probably have been clearer far sooner. This is not to suggest that supply retarding influences such as monopolistic developers or restrictive approval processes do not exist. If they do exist, however, their primary importance lies in higher current and future price levels and not in the rapid changes experienced during the boom. We will, therefore, now turn to a detailed examination of factors affecting the supply of new lots and the effects that these factors have had on current price levels and are likely to have on future prices.



### A. The Importance of Uncertainty

Perhaps the most important assumption in the simple model of land price determination presented in Chapter 3 is that land investors have good foresight or accurate expectations about the future. The purpose of the present chapter is to dispense with this obviously unrealistic assumption and explicitly consider the effects of uncertainty on prices and land development. We have noted, for example, that land may be held for either consumption or asset motives (or both). Since land is a durable good that yields a stream of benefits over a long period of time, present demand for land for consumption purposes depends upon consumers' judgments about the future. The asset demand and supply for land depends even more clearly on investors' judgments about the future. Thus both components of demand depend on expectations about future events which are, of course, uncertain.

Uncertainty about the future arises from a number of sources. First, there is uncertainty about future rates of population growth and other demographic factors. Second, there is uncertainty about future levels of income and general economic conditions. Since land and housing are durable, the consumption motive for buying depends on expected future income as well as on present income. An individual making \$20,000 per year is far more likely to buy a \$60,000 house if he expects his income to rise steadily than if he expects to be laid off in the near future. Similarly, the asset motive for buying and selling land depends upon expectations of future incomes since future income levels directly determine the level of future demand and future prices. Third, substantial uncertainty has been introduced into the land market in recent years by the growing level of government intervention. Restrictive subdivision approval processes and frequent changes in official plans are two examples of actions that generate uncertainty.

Expectations can and do undergo rapid changes which, in turn, produce correspondingly large price changes. Although the 1972-75 boom as discussed in the previous chapter forms only one such period in our recent history, two implications of this boom are important for our present purposes. First, the expectations of sellers of land formed during the 1950's and 1960's were significantly off target as they sold low; secondly, however, the evidence now shows that in some areas the boom became a speculative bubble and land prices significantly overshot their appropriate values as buyers bought high, based on expectations in the early 1970's which were also incorrect.



Interesting evidence about the quantitative importance of uncertainty over the last 25 years was supplied to the Task Force for the City of Montreal. Figure 6.1 (drawn from Task Force Research Studies Volume, Chapter 4) shows the movement of raw land prices over time in three areas of the Montreal region. These areas are, respectively, the subdivision of Rive Boisée in the City of Pierrefonds, the subdivision of Sabrevois in the City of Boucherville, and the subdivision of Portobello in the City of Brossard. We selected Montreal for this study of raw land prices in order to overcome the serious problem which exists almost everywhere else in Canada, that raw land is typically traded in large blocks and is therefore traded too infrequently to permit enough observations to be made.

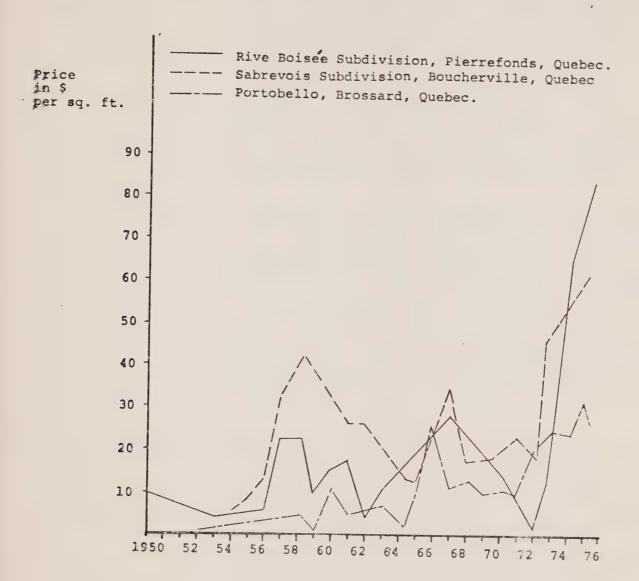
All three areas show substantial fluctuations in the price of raw land. We do know from Table 2.1 that Montreal lot prices fell in a number of years so that we should not regard the large negative fluctuations shown in Figure 6.1 as typical of all urban areas. But a comparison of these graphs with Table Al in the Appendix will also show that the raw land prices fluctuated substantially more than serviced lot prices which is the point we wish to establish. While raw land prices in Figure 6.1 show fluctuations ranging from 200% (Portobello) to 900% (Rive Boisée) during the 1966-1975 period, fluctuations in Montreal lot prices as shown in Table Al were less than 150% in the same period. More complete documentation is contained in the Task Force Research Studies Volume, Chapter 4.

In short, all of the evidence compiled by the Task Force indicates that uncertainty is a significant empirical phenomenon in the land market. The evidence indicates that raw land prices fluctuate much more than housing prices and that investment in raw land is a far more risky venture than is commonly thought to be the case.

B. Speculation An appreciation of uncertainty and the riskiness of land trading is vital for an understanding of several controversial issues. The first of these is land speculation which has been one of the suggested causes for recent increases in, and levels of, lot prices. Chapter 4 of the Task Force Research Studies Volume notes that despite its common usage, it is difficult to find an explicit definition of "speculation" anywhere in the written record of public discussion. That chapter goes on to note that in economics literature, the term "investor" has been used for an agent who provides capital which he assumes is to be used in the



### LAND PRICE MOVEMENTS 1950-76 VARIOUS MONTREAL SUBURBS



SOURCE: Task Force Research Studies Volume, Chapter 4.

A STATE OF THE STA



production of goods and services. The term "speculator" on the other hand has been traditionally used to denote an agent who buys and sells assets for the sole purpose of making a capital gain. In the spirit of this distinction, we have throughout the Task Force Study defined a land speculator as an agent who buys and sells land: (a) for capital gains purposes; and (b) without affecting improvements to that land. We have defined a developer as an agent who purchases land in order to transform it into a more valuable commodity by subdividing and servicing it. It is, of course, possible for an agent to be a speculator in some activities and not in others. Some readers will no doubt be displeased with our definitions but will perhaps concede the absolute necessity for some consistent and meaningful definition.

Suppose for a moment that all agents in the land development process had extremely accurate expectations about the future, such that there was very little risk or uncertainty in the market. The simple model of price determination in Chapter 3 has suggested that in such a situation prices would tend to move in such a way that a farmer who owns land ten years away from development will face present and future prices that leave him more or less indifferent between holding his land for ten more years or selling today for a lower price and investing his funds. A developer making plans for ten years hence would similarly face prices that leave him indifferent between purchasing land today and purchasing it ten years hence.

In such a world there would be little role for speculators or middlemen between farmers and developers. They would have no apparent function to perform. But given the substantial uncertainty mentioned above, there will exist a role for agents who are less risk averse than farmers and developers. Professional risk takers (i.e., speculators) will enter the market and purchase land from farmers at prices substantially in excess of agricultural value but substantially below average residential value. These agents will then make gains or losses depending upon whether or not conditions are such that the land can be developed within a reasonable period of time.

Provided that there are enough speculators in a market to ensure that speculation is a competitive activity, it is not clear why land speculation carries such a negative connotation. Indeed, economists have long argued that if speculators make money, then they perform the function of stabilizing the market. In other words, if specu-



lators successfully buy low and sell high (i.e., if they make money), then they reduce the price fluctuations that would otherwise occur in the market. Further, analysts from both ends of the political spectrum tend to agree that speculation (if competitive) does not affect long-run price levels.

In Chapter 3 of the Task Force Research Studies Volume, the author makes one comment that may shed some light on the negative connotation attached to land speculation. This has to do with the general lack of appreciation of the phenomenon of compound interest. If an asset such as raw land is risky, investors will insist on high average rates of return as a compensation for risk bearing. Suppose, for example, that land speculators required an average rate of return of 14% in order to be willing to hold land. The author points out that if the speculator expects the land to be worth \$100,000 in only seven years, he will be willing to pay only \$41,000 for it now. Thus with expectations just met and with the 14% return just being earned, the land price will rise to twoand-one-half times its original price in only seven years. The figure of 14%, which does not seem excessive viewed by itself, begins to look excessive when compounded over a number of years. The returns look even more excessive, of course, if one reports only successful speculative ventures and forgets the losing ventures as some analysts have done. That is like evaluating Eaton's profits on the basis of November and December sales only, and ignoring the February doldrums.

C. A Case Study in Land
Assembly

To better understand the actual working of land speculation and the assembly of small land parcels into larger areas, the Task Force examined the histories of a number of successful land assemblies across the country. It is hoped that these case studies will give us some idea of how the process has operated in the past, but of course they may not describe the process used today and in the future. The second point that must be constantly kept in mind is that the Task Force traced only successful projects. Capital gains made in these
successful land assemblies cannot be considered representative of the average gains made on raw land speculation. The data presented below also comes from the "boom years": a very special time in history when unforeseen increases in incomes, population, and inflation resulted in huge gains (for existing homeowners as well as for landowners).

The assemblies examined across the country by the Task Force revealed a tremendous amount of



diversity. A good deal of this diversity is captured in Chapter 4 of the Task Force Research Studies Volume. In this Report, we only present one case study and thus its limitations should be kept in mind.

Figure 6.2 shows the assembly process for land currently owned by Bramalea Consolidated in the City of Brampton which lies on the northwest fringe of Metropolitan Toronto. This assembly was composed of nine parcels (listed 1-9 in the left-hand column), seven of which were eventually purchased by Bramalea. A movement from left to right in the figure represents a movement through time from past to present. Total acreage in these seven parcels is just short of 500 acres.

Transactions on these parcels occurring in the 1940's were all between family members and probably cannot be counted on to provide reliable price information. In 1951, however, Parcel 1 was sold by Moran to Ruston for \$5,000 or \$100 per acre. In 1953, Parcel 3 was sold by Moran to Clarkson for \$26,000 or \$268 per acre. Neither price is in excess of agricultural value and thus give us two indications that future development potential was not perceived at this date.

Later, two more parcels were purchased by middlemen. M. Ackroyd sold Parcel 7 to the Armstrong Brothers Company in 1964 for \$138,614 or \$2,718 per acre. Clarkson sold Parcel 3 to Arosa Properties in 1972 for \$631,936 or \$6,515 per acre. To the best of our knowledge, all four middlemen companies, Bayton, Arosa, Nortonville and Armstrong were independent of Bramalea Consolidated.

A five year gap occurred between Bramalea's purchase of Parcel 1 and 2 and its next purchase of Parcel 4 from Nortonville in 1963 for \$75,000 or \$2,500 per acre. This was the only example of a large loss recorded in this assembly. An examination of other prices shows that the \$5,000 per acre paid by Nortonville for this land was clearly above market and that the \$2,500 received in the sale was a reasonable price for the period. Adding to the gross loss of \$75,000 the opportunity costs of holding the land for eight years produces an economic loss of well over \$100,000 or nearly 100% of invested capital.

Armstrong Brothers sold Parcel 7 to Bramalea in 1964 (one month after purchase) for \$141,243 or \$2,769 per acre. This rather small gain of \$3,000 on the 51 acre parcel probably covered expenses at best. Parcel 5 was also acquired from J. Ackroyd



2001000			
	Moran - Ruston 50 AC July 15, 1951 \$5000 \$100/AC	Ruston - Bayton December 16, 1957	Bayton - Bramalea 1950'AC March 28, 1958 Price NA
2	Ruston - Ruston 100 Ac January 10, 1948 NIL	150 AC \$166,216 \$1108/AC	
е .	Moran - Clarkson 97 AC April 1, 1953 \$26,000 \$268/AC	Clarkson - Arosa 97 AC August 10, 1972 \$631,936 \$6515/AC	nal 3
4	Ackroyd-J.Ackroyd 127 AC December 14, 1942 \$4500 \$35/AC	J. Ackroyd - Nortonville October 1, 1955 30 AC \$150,000 \$5000/AC	Nortonville - Bramalea November 15, 1963 30 AC \$75,000 \$2500/AC
2			J. Ackroyd - Bramalea November 15, 1963 97 AC \$243,145 \$2507/AC
ω	Ackroyd-M.Ackroyd 100 AC May 21, 1943 \$3000		
-		M. Ackroyd - Armstrong March 16, 1964 51 AC \$138,614 \$2718/AC	Armstrong - Bramalea 51AC April 27, 1964 \$141,243 \$2769/AC
∞	Parr - M. Parr 198 AC April 17, 1943 \$19,500		M. Parr - Bramalea 72 AC \$1,149,760 March 31, 1970 \$15,969/AC
6			
	SOURCE: Markusen, J. Development: University o	, and Scheffman, D., Speculation Analytical Foundations with Evi f Toronto Press, 1977.	and Monopoly in Urban dence for Toronto.

PUBRAMALIEAN (ASSEMBLY POTORONTON REGION / PONTARIO



in late 1963 for \$243,145 or \$2,507 per acre.

The late 1960's and early 1970's, on the other hand, produced rapid price increases and spectacular capital gains. Mary Parr sold Parcel 8 to Bramalea in 1970 for \$1,149,760 or \$15,969 per acre. Arosa Properties sold Parcel 3 less than a year after purchase for \$1,323,469 for about a 100% rate of return over nine months.

D. General Finding In addition to examining these studies done by Markusen and Scheffman in Toronto, the Task Force also examined land assemblies in Montreal, Edmonton, Fredericton, Charlottetown and Vancouver. Please remember our earlier caveat about small samples and the boom years period. Nevertheless, our research in total suggests the following broad generalities:

- (1) The length of time between land acquisition by the final developer and subdivision varied substantially both across the country and within urban areas. In very few cases did we find the final developer purchasing land as much as ten years before development. Several long holding periods were observed in Toronto but short holding periods of two years were also observed in that region. For Fredericton, Charlottetown, Edmonton, and Vancouver, holding periods of two or three years seemed to be the rule rather than the exception.
- (2) The length of time between development and the date that land began to appreciate above agricultural value varied somewhat less across the country. At one extreme was Toronto, where land was observed to appreciate above agricultural value almost twenty years prior to development. In other areas, perception of future development potential seemed to be slower in coming and prices began to rise ten years or less before development. Within each urban area, however, the pattern of price appreciation was remarkably uniform. Thus there is some variation in the inter-urban but not in the intra-urban sense. .
- (3) The importance of middlemen also seemed to vary more across metropolitan areas than within areas. Middlemen played major roles in Montreal and Toronto, significant roles in Edmonton, but were of less significance in Fredericton, Charlottetown, and Vancouver.
- (4) In Toronto, middlemen were often responsible for the assembly of small parcels into larger ones. To the extent that assembly is a productive social activity, such middlemen are not purely speculators as defined earlier.



- (5) The pattern of prices over time on land that was successfully subdivided in the 1970's showed very high average rates of capital gains in the late 1960's and early 1970's and very few losses. The period of rapid price increases probably began earlier in Toronto than elsewhere but all areas experienced the "boom".
- (6) Our Montreal research which includes all raw land transaction prices in certain areas shows a high degree of variability over time. In particular, raw land prices showed far more variation than serviced lot prices.
- (7) The variance in prices paid for similar parcels of land at similar points of time was frequently large enough to suggest substantial uncertainty and poor information in the markets. This is not surprising since to the best of our knowledge, current or even past raw land price data are not collected and compiled in a systematic way anywhere in the country. Unlike agents in the stock market, therefore, agents dealing in raw land have a high degree of uncertainty over market conditions at any point in time.



# A. Conditions Necessary for Market Power

Earlier it was noted that the absence of uncertainty was an important assumption made in the stylized discussion of land price determination presented in Chapter 3. An equally important assumption and certainly one that has received considerably more attention is the supposition that the land market is competitive. Few theories, it seems, have generated the controversy that is associated with the "monopoly developer theory". This theory asserts that in various urban markets the ownership of undeveloped land and/or land approved for development is concentrated in the hands of a small number of developers who collude to raise prices above their competitive levels. The method by which they are thought to raise prices is presumably restriction of land supply.

Agents who have the ability to raise prices above their competitive levels are said to have market power. Market power is thought by economists to be undesirable for two reasons. The first is inefficiency: the distortion of prices from the competitive levels usually implies that society's scarce resources are being used inefficiently. In this respect, the exercise of market power results in an overall loss for the society. The second is inequity: in addition to causing an overall loss, exercised market power usually results in a redistribution of income in favour of the agents with market power.

Economists generally agree that two conditions are necessary for economic agents (sellers of land in our case) to have market power. First, the number of sellers (or buyers as the case may be) must be small in number. The reason is that the restriction in supply needed to raise prices requires the creation and the enforcement of a collusive agreement on the part of the sellers. Such an agreement may be either implicit or explicit. A necessary characteristic of an agreement in either case is that each member of the cartel agree to accept some limit on his sales. Thus a collusive agreement always involves a struggle over the market shares allocated to the members of the agreement. It is widely believed that these agreements quickly become difficult to form and impossible to enforce as the number of sellers becomes large.

The second condition necessary for sellers in an industry to have market power is that there exist barriers-to-entry in that industry. A barrier-to-entry in an industry is a cost which must be incurred by a new firm but not by an old firm. While most observers are familiar with the concentration condition, a surprising number seem to be



quite unfamiliar with the barriers-to-entry condition. Yet it is easy to see why this second condition is so important. If there are no barriers-to-entry, even a highly concentrated industry cannot exercise market power, since any attempt to raise prices above competitive levels will cause new firms to enter the industry.

When barriers-to-entry exist in an industry, economists use rough rules to determine whether or not the degree of seller concentration in that industry is high enough to imply the existence of significant market power. While industrial organization economists do not like to be pinned down to a general rule, a typical criterion is that the top four sellers must control about 60% (a few say 50% and some say 70%) of a market with moderate barriers-to-entry for significant market power to exist. While there is no reason why these ratios provide a hard and fast measure of significant market power, they do provide an initial benchmark where little else exists against which the industry across Canada can be compared.

An attempt to determine whether or not these two conditions are met in any market must first confront the issue of defining the market. Basically, a market should be defined to include all products whose prices are jointly determined. Products which are very good substitutes for one another should be grouped together into the same market. This brings us to exactly the same question addressed in Chapter 4 on short-run price fluctuations: the stock-flow problem. In that section, we noted that the evidence suggested that new and old houses are quite good substitutes for one another. It does seem to be the case that sufficient numbers of households respond to price movements to justify the assumption that each metropolitan area forms a single market. If this is true for housing, it must be true for the residential land market since the demand for the latter is derived from the demand for the former.

It should be pointed out to those who are not convinced by the evidence in Chapter 4 that an assumption of complete substitutability is not really needed here. All that is really necessary is that we agree that undeveloped land on the urban fringe forms a single market in each urban area. Hopefully this is not offensive to anyone since neighbourhood characteristics are not well developed in these fringe areas. Perhaps everyone will also agree that this "undeveloped land" market has a great many "good" but not "perfect" substitute products: all of the developed residential



neighbourhoods.

Restricting ourselves, therefore, to a discussion of undeveloped land, the problem of determining the barriers-to-entry into this market is refreshingly simple. A new firm can only enter the land industry by buying out an existing landowner and thereby inducing that landowner to leave the industry. Any collusive agreement among existing landowners forms an absolute barrier-to-entry.

In the land market, therefore, the conditions necessary for the existence of significant market power reduce to the single condition that the sellers in the market are few in number.

One problem still remains: should concentration be measured in the ownership of land or in the actual development of land when dealing with the urban fringe land market? It is the Task Force's opinion that it is important to distinguish between two activities: the land holding "industry" and the land development "industry". While many firms engage in both industries, there are a significant number of firms that deal in land but do little or no actual development and a number of firms that buy only zoned and serviced land immediately prior to development. As noted in the previous paragraph, the barriers-to-entry in the land holding industry are extremely high. A monopoly landowner could easily control the release of land to land developers in order to influence price.

Empirical evidence does suggest that actual land development is more concentrated than land ownership. In Toronto, for example, a study by Andrew Muller for the Ontario Economic Council shows that, after all linkages among companies are taken into account, the four largest subdividers accounted for 33.4% of the building lots approved from 1971-73 and that the top ten accounted for 53.5%. Corresponding statistics in a study by Markusen and Scheffman (also for the Ontario Economic Council) for land ownership show the top four landholders with 22.7% and the top ten with 37.1%.

While the evidence is not definitive, the Task Force tends to support the point of view that barriers-to-entry in actual land development are quite low. Muller was not so sure. Muller conconluded that "barriers-of-entry into land development may by significant" because of the joint effect of three factors.(1) The first of these is

(1) Muller, Robert Andrew: The Market for New Housing in the Metropolitan Toronto Area. Ontario Economic Council, 1978.



the possible existence of economies of scale for large developments. Evidence gathered by the Task Force, however, indicates that large scale projects were no more profitable than small projects indicating that economies of scale are either minimal or non-existent.(1) Muller may have been referring more to company size than to individual project size but we similarly know of no evidence to suggest that the larger companies are inherently more profitable than small companies. A second factor which Muller identifies as a possible barrier-to-entry to land development is concentration in the ownership of land. The Task Force concentrated its efforts on examining land ownership with the results reported later in this chapter. Finally, Muller suggests that barriersto-entry may exist because of the planners' preference to approve developments bordering on built-up areas. Land bordering on built-up areas was, of course, included in the Task Force's sample as was all land with development potential within the next five years (discussed below). It could be argued that the breadth of the sample of five year land examined by the Task Force is too generous if one developer, for example, owned all the land which could be developed in one year. However, it is unlikely that such a developer would greatly restrict development for the one year period since his ability to influence prices is sharply limited in the short run, as discussed at length in Chapter 4 on short-run price fluctuations.

Further influence of the lack of barriers-to-entry into land development has been given in recent years by the entry of eastern firms into the Western Canadian market (e.g., Bramalea, Markborough, Costain, Campeau) and entry by western firms into the Eastern Canadian market (e.g., Nu-West, Engineered Homes, Carma). The market in London, Ontario, for example, thought to be monopolized by Sifton and Matthews, has recently been entered by Wimpey and Monarch. The market in Calgary, thought to be monopolized by Carma, Nu-West and Genstar, has recently been entered by Markborough, Costain and Campeau. Similarly, Wimpey and Costain have entered the Edmonton market in competition with Nu-West, Genstar, Daon and Qualico. All of these actual instances of entry obviously provide limited but tangible evidence that barriers-to-entry in land development cannot be very significant. Thus the Task Force is of the opinion that anyone wishing to make a case for

<sup>(1)</sup> This result is explained in greater detail in Chapter 9.



market power on the basis of concentration in actual development activity must be required to prove the existence of barriers-to-entry. Existing evidence suggests that an attempt to do so will not be successful. This is why the Task Force concentrated its efforts in examining the market for undeveloped land.

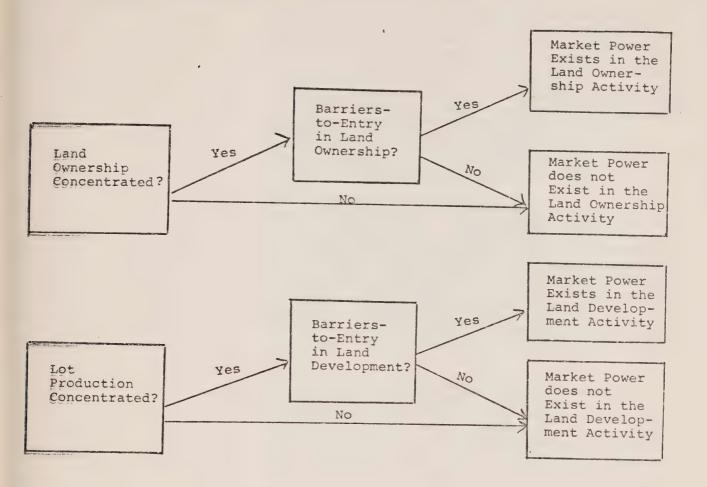
The basics of our argument are shown in the accompanying decision tree (Figure 7.1) which divides the land development industry into two activities: land ownership (land holdings) and land development. Two tests must be performed on each activity to assess whether or not market power exists. Our argument states that barriers-to-entry obviously exist in the land ownership activity while existing evidence suggests that significant barriers-to-entry do not exist in the land development activity. If this is correct, the lower decision tree does not allow us to conclude that market power exists in the land development activity even if the production of lots is concentrated. The opposite conclusion is reached in the upper decision tree: market power must necessarily exist if land ownership is concentrated.

Before proceeding to the data, a few words should be said about the price effects of exercised market power. In most commodity markets, a monopolist can make significant gains in the short run by restricting supply and raising price. But in the land market we are once again confronted with the large stock of land already in residential housing. Chapter 4 above presented a simple example illustrating the price effects of a restriction in the supply of new housing. This example is perfectly adaptable to a description of the price effects of of monopoly supply restriction. The implication of the analysis in that chapter is that the ability of a monopoly land-owner to raise prices in the short run is sharply limited even if that landowner were to reduce lot supply to only 50% of competitive levels. Thus, as in the case of other types of supply restrictions, the Task Force does not believe that monopoly ownership of undeveloped land could have caused the degree of price appreciation that was witnessed across the country from 1972-

Note, however, that this in no way implies that monopoly ownership of undeveloped land should not be a cause for concern. Price increases of one or two percent per year compounded over long periods of time can become very significant indeed. The point is simply that the effects of market power are to distort long-run price levels in a gradual way, rather than to cause periods of sharp price increases.



### DECISION TREE FOR ASSESSING INDUSTRY STRUCTURE





B. Sample Methodology As noted previously, any attempt to analyze concentration in a specific market must immediately confront the issue of defining the market. The first decision that must be made in this regard is how far one is willing to travel from the urban core in defining the market for undeveloped land. It is argued in Chapter 8 of the Task Force Research Studies Volume that with land spatially differentiated by transport costs, significant concentration of ownership within subsets of land at fixed commuting distances from the urban core is sufficient for the existence of market power. Thus the first step in the formation of a sample would seem to be the fixing of an outer boundary.

No firm scientific criteria can be found to help out in this regard. Our decision, which can of course be disputed, is as follows. For urban areas under 500,000 in population the outer boundary of the area was set at about five minutes commuting time (approximately two to three miles) from the present built-up area. For urban areas of 500,000 to 1,500,000 population, this limit was set at ten minutes commuting time from the built-up fringe. For areas in excess of 1,500,000 population, the limit was set at 15 minutes or about eight to ten miles.

The second criterion we adopted in selecting a sample was that all land in the sample be potentially serviceable with all required utilities within five years. This does not mean that all of the land in the sample must actually receive trunk servicing facilities in five years but only that all land in the sample has the potential for receiving such servicing under existing servicing schemes. The basic principle behind this decision has to do, once again, with the stock-flow issue. If one developer controlled 100% of the three year supply of land but only five percent of the five year supply, there is little reason to believe that he would behave significantly differently from a competitive industry. He might, for example, be able to achieve a price increase of 25% over the three year period in exchange for a 50% cut in production, but this would generally not be a profitable strategy. We have, therefore, settled (somewhat arbitrarily) on control of a five year supply as a minimum requirement for significant market power.

The third criterion for selecting a sample in each metropolitan area was that land which we were certain could not be developed should not of course be included. This includes swamps, parkland, industrial lands, etc. Land which is not presently



zoned for residential use was not eliminated on that basis alone. Zoning designations and official plans are amendable as we all know. Indeed, a major activity in the life of a developer is the pursuit of changes to these municipal planning instruments.

These three criteria formed the basis for examining ownership concentration in a number of metropolitan areas across the country. In each area, of course, the general criteria had to be modified to take into account specific local features. Thus, in all areas, a number of judgments inevitably had to be made as to whether or not particular areas should be included in the sample. These were often judgments about which reasonable men could differ. Similarly, in several areas, the Task Force staff either did not use, or substantially altered, the research results of existing ownership studies. In Halifax, for example, the staff added significant acreage to the local CMHC landmapping study after determining that this study did not conform well to the Task Force criteria. In any case, an important point is simply that there is no such thing as a "definitive" sample since a judgmental element always remains.

Finally, it should be emphasized that our data reflect industry structure at only one point in time, 1977. They cannot tell us, for example, if the development industry is becoming more concentrated over time. This is an important question since there do appear to be several forces at work that may lead to higher concentration in the near future. These forces are discussed at length in subsequent chapters.

C. Findings Once the data were collected the obvious question was one of possible linkages among companies. Popular opinion is that these linkages are quite common. The problems involved in establishing linkages are substantial, involving both arriving at a definition of a linkage and then obtaining the data on whether or hot a linkage exists. Many development companies are privately owned and others are foreign owned. Given this problem, we decided to try to establish linkages by overlaps in principal officers and directors as well as by tracing links in equity ownership. Companies that Task Force personnel were able to link together in this manner are listed in Figure 7.2 as "composite components".

> Indirect linkages, of course, may also exist. Companies A and B may, for example, share one



# COMPOSITE COMPONENTS OF SIGNIFICANT NATIONAL OR LOCAL IMPORTANCE

	Area of					
Composite Components	Operation	Linkage				
Genstar B.A.C.M. Engineered Homes Abbey Glen United Management Kelwood	National	Abbey Glen and Kelwood are part of Genstar Corp.  B.A.C.M. and Engineered Homes are 100% owned subsidiaries of Genstar and United Management is 50% owned by Genstar.				
Nu-West Carma Cairns	National	Cairns is owned by Nu-West and Carma is 48% owned by Nu-West.				
Markborough Wimpey	National	Principal officers and boards of directors share two members.				
Bramalea Developmental	National	Principal officers and boards of directors share two members.				
Cadillac-Fairview Don Mills	Eastern Canada	Amalgamated.				
Consolidated Building Archway	Eastern Canada	Principal officers and boards of directors share one member.				
S. B. McLaughlin Focal	Eastern Canada	S. B. McLaughlin owns Focal outright.				
Block Bros. Realty 105 Mile Ranch	Vancouver	Principal officers and boards of directors share one member.				
S. Spetifore and Sons Imperial Developments	Vancouver	Principal officers and boards of directors share one member.				
North Port Properties Community Builders	Vancouver	Principal officers and boards of directors share two members.				
Delsom Estates Picadilly	Vancouver	Principal officers and boards of directors share one member.				
Daon Development Dawson Developments	Western Canada	Dawson changed its name to Daon.				
Harmon/Elgon Remco Properties	Vancouver	Principal officers and boards of directors share two members.				
	Vancouver	Principal officers and boards of directors share two members.				



Composite Components	Area of Operation	
Sterling		Linkage
gager	Calgary	Amalgamated
Plainsview Stäseson Stases	Regina	Staseson is a shareholder in Plainsview.
Saskatoon Land Dvpmt. Boychuck Real Esate	Saskatoon	Boychuck is a shareholder in the Saskatoor Land Development Corporation.
Metropolitan Cirrus Land	Winnipeg	Metropolitan is a major shareholder in Cirrus.
Winfield Prop.	Calgary	Metropolitan and Winfield share one principal officer and director.
North Winnipeg Prop.	Winnipeg	Principal officers and boards of directors share two members.
Skyline Enterprises Brendie Engerprises Leila Farms	Winnipeg	Principal officers and boards of directors share one or two members.
Cedarland Bond St. Edynia V.H.D. Slen Cove Village Securities	Toronto	Principal officers and boards of directors share a minimum of one member and a maximum of two members.
Pinetree Runymede Goodfield Gexdale Tannenbaum	Toronto	Principal officers and boards of directors share a minimum of one members and a maximum of two members.
cumen rrandene ayland	Toronto	Principal officers and boards of directors share between one and three members.
ander tura ilestar	Toronto	Principal officers and boards of directors share one member.
Oniferous upra ettle	Toronto	Principal officers and boards of directors share two members.
adie and Willcock Oklin Holdings	London	Common Directors



Composite Components	Area of Operation	Linkage			
Five Knights Rice, et al.	London	Two of Rice, et al. are directors of Five Knights			
Shenkman Queenswood Larega	Ottawa	Queenswood shares two directors with Larega, one with Shenkman.			
Tartan Granic	Ottawa	Amalgamated			
Maple Ridge Bedford Village Proper- ties	Halifax	Board of directors share three members.			
Eastern Realty Keppock Estates	P.E.I.				
Prebuilt Structures Williams, Murphy and MacLeod	P.E.I.	Principal officers and boards of directors share three members.			

SOURCE: Task Force Research Studies Volume, Chapter 8.



director while companies B and C share a different director. Thus a tenuous link exists between A and C. Basically, this did not prove to be an empirically important problem. The only instance we found of this type of indirect linkage was between Cedarland and Pinetree composite companies shown in Figure 7.2. These two companies were linked through a chain of two intermediary companies. Linking them together would lead to a small rise in the concentration figure for Toronto but not enough of a rise to make a significant difference.

With a great deal of help from CMHC land mapping personnel, local and provincial officials, and many other individuals as listed in Chapter 8 of the Task Force Research Studies Volume, Task Force staff were able to put together the first fully comprehensive and inter-city comparable data on land ownership. Figure 7.3 gives the top four nominal owners in each of the areas examined. Summary concentration statistics derived on the basis of the above criterion are given in Table 7.1. Statistics are given both on the basis of nominal ownership (compiled on the basis of the legal owner's name) and on the basis of effective ownership (compiled after treating all companies linked together as a single firm). Detailed data giving names of firms, etc. for each urban area can be found in Chapter 8 of the Research Studies Volume.

Calgary, the first entry in Figure 7.3 and Table 7.1, shows by far the largest increase in concentration due to corporate linkages. This is due to the presence in Calgary of the two major groups. Nu-West-Carma-Cairns account for 10.7% of all land in the sample and B.A.C.M.-Abbey Glen-United Management-Kelwood account for 16.5%. These linkages raise the holdings of the top four companies from 30.4% to 46.1% of the sample in which Daon and Qualico are the third and fourth largest companies on the effective ownership list. The degree to which concentration increases diminishes as we move down the list of companies. Effective ownership statistics show the top 25 landowners controlling 72.2% as opposed to 70.3% in the nominal ownership statistics. This is simply due to the fact that the lumping together of several of the larger companies noted above necessitates bringing in some quite small landowners to fill out the list of 25.

Charlottetown has a low 4-firm concentration ratio of 11.8% in both the nominal and effective statistics with one of the top 4 being a public sector corporation (Prince Edward Island Housing Corp.). Edmonton shows a 4-firm concentration ratio of



TOP 4 LANDOWNERS BY METROPOLITAN AREA (Nominal Ownership)

Metropolitan Area	Top 4 Owners	Metropolitan Area	Top 4 Owners	
Calgary	Carma B.A.C.M. Nu-West Daon		O.H.C. * Campeau Shenkman Costain	
Charlottetown	East River Borden, R. P.E.I.H.C.* Dockendorff, W.	Regina	S.H.C. * Cairns L. Johnson R. McKell	
Edmonton	Carma Abbey Glen Daon Celanese	Saskatoon	City of Sask.* C.M.H.C. * Embassy Boychuck, M.	
Halifax	P.U.C. * N.S.H.C. * Hogan Whebby, W.	Toronto	Cadillac Markborough Bramalea Focal	
Hamilton	O.H.C. * Winnipeg Home A. Cope & Sons Clock Inv.	Vancouver	*N.Vancouver Dis B.A.C.M. Burnaby Dist.* British Pacific	
London	Matthews Sifton Zaifman, P. Klinger & Hamilton	Sifton Winnipeg Zaifman, P.		
Montreal	Rock Enterprise Mun. de Longueuil* Monarch Rose Garden			

<sup>\*</sup> Government Corporation and other Public Sector Owners

SOURCE: Task Force Research Studies Volume, Chapter 8.



Ownership Concentration: Nominal and Effective Ownership Statistics

Metropolitan	% owned by top 4 owners		% owned by top 10 owners		% owned by top 25 owners	
Area	Nominal	Effective	Nominal	Effective		Effective
Calgary	30.4	46.1	51.5	62.2	70.3	72.2
Charlottetown	11.8	11.8	23.6	24.0	46.8	47.8
Edmonton	30.0	N.A.	50.0	N.A.	76.2	N.A.
Halifax	73.9	73.9	85.6	86.8	96.4	96.4
Hamilton	21.0	21.0	32.7	32.7	47.3	47.3
London	30.7	32.5	47.3	49.8	69.2	71.0
Montreal	13.6	N.A.	24.1	N.A.	39.0	N.A.
Ottawa	63.2	64.4	79.6	80.8	90.7	90.9
Regina	58.3	58.3	83.5	86.3	N.A.	N.A.
Saskatoon	84.5	98.1	99.2	99.8	N.A.	N.A.
Toronto	17.5	22.7	27.7	37.1	40.2	48.7
Vancouver	27.0	30.3	37.3	43.1	50.7	56.1
Winnipeg	48.7	49.5	64.8	66.4	74.2	75.5

SOURCE: Task Force Research Studies Volume, Chapter 8.



30.0% in Table 7.1. Time did not permit us to compile effective ownership statistics for Edmonton but it appears from our research that there are fewer linkages than in Calgary and thus while nominal statistics are roughly the same in the two areas, effective ownership is less concentrated in Edmonton. Note especially from Figure 7.3 that the top four owners in Edmonton are independent companies.

Halifax has a very high 4-firm concentration ratio of 73.9% in both statistics, which are dominated by public sector owners: the Public Utilities Commission and the Nova Scotia Housing Corporation. Hamilton has a very low concentration with a public sector owner (Ontario Housing Corporation) at the top of the list as noted in Figure 7.3. London, dominated by private sector owners, shows a small increase in the 4-firm ratio from 30.7% to 32.5% due to the linkages noted in Figure 7.2.

Montreal statistics show quite a low degree of concentration. We were unable to get a complete sample in Montreal which we feel resulted in a definite upward bias of these concentration ratios (discussed in Chapter 8 of the Research Studies Volume).

Ottawa, Regina, and Saskatoon show 4-firm concentration ratios (effective statistics) of 64.4%, 58.3%, and 89.1%, respectively. In each case, public sector owners dominate: Ontario Housing Corporation in Ottawa, Saskatchewan Housing Corporation in Regina and the City of Saskatoon, and C.M.H.C. in Saskatoon.

Statistics for Toronto in Table 7.1 show the second largest increase in holdings by the top four (after Calgary) and the largest increase in holdings by the top 25 due to corporate linkages. The top four account for 22.7% of the sample in the effective ownership statistics but only 17.5% in the nominal ownership statistics. This is due to a number of the linkages shown in Figure 7.2: Cadillac-Fairview-Don Mills, Markborough-Wimpey, Bramalea-Developmental, and S.B. McLaughlin-Focal. four composite companies make up the top four (effective) landowners. Concentration in the top ten landowners is further increased by the Cedarland, Pinetree, and Acumen groups shown in Figure 7.2. These groups rank in positions 5, 6 and 9 respectively in the effective ownership statistics. The other composites shown for Toronto in Figure 7.2 contribute some small additional increases in concentration in the top 25.



Vancouver shows a degree of increase in concentration due to corporate linkages that closely parallels Toronto. The B.A.C.M.-Engineered Homes and Community Builders-North Port Properties composites rank third and fourth respectively in the effective ownership statistics and thus increase the holdings of the top 4 to 30.3%. S. Spetifore and Sons Imperial Developments, Nu-West-Carma, and Daon-Dawson composites rank 6, 8 and 9 in the effective ownership statistics respectively and contribute to increased concentration in the top ten. The other three composites shown in Figure 7.2 contribute to raising the holdings by the top 25 landowners. Minor changes in the Winnipeg top four ratio (from 48.7% to 49.5%) are due to the linkages noted in Figure 7.2. Public sector owners dominate here also with the City of Winnipeg and the Manitoba Housing and Renewal Corporation in first and fourth places respectively as noted in Figure 7.3.

The conclusion from these data is almost embarrassingly simple given the tremendous amount of work that went into compiling it. Nowhere among the thirteen metropolitan areas researched is private ownership of undeveloped land concentrated enough to imply market power and resource misallocation. In all cases where ownership is concentrated (Halifax, Ottawa, Regina, Saskatoon), public sector owners dominate. In other areas, the highest percentage owned by the top four firms (effective ownership) is 49.5 in Winnipeg (also with a high degree of public ownership), followed by 46.1 in Calgary. Neither statistic is high by the traditional standards of industrial organization economics, and we know of no mitigating circumstances to not bring in a judgment that significant market power does not exist in these areas. This is not, of course, to suggest that the industry is not becoming more concentrated and that a problem might not develop in the future. This issue will be discussed in several subsequent chapters of this Report.

One instance of disagreement that should be noted occurred in the case of Ottawa, where several analysts were split over whether or not a large block of land owned by the Ontario Housing Corporation should be included in the sample (we did include it). If it was deleted, ownership in Ottawa would then be dominated by the private sector with the top four firms controlling about 60%: high enough to suggest the possibility of significant market power.



With this one possible exception, there is no evidence that ownership of undeveloped land is concentrated in the hands of a small number of powerful developers. The only important assumption used in reaching this conclusion is that different areas of urban fringe land around metropolitan regions are reasonably good substitutes or alternatively that prices in these areas tend to fluctuate together. Both the theoretical and empirical arguments presented in Chapter 4 above support this hypothesis.

Rejection of a broader conspiracy theory which is based both on land ownership and on actual land development requires only the additional assumption that barriers-to-entry in land development are low. All of the actual instances of entry form limited but tangible evidence that barriers-to-entry at the land development stage may not be very significant. We therefore conclude that anyone wishing to make a case for developers having market power on the basis of concentration in the development stage must be required to prove the existence of barriers-to-entry. Existing evidence suggests that any attempt to do so will not be successful.



## A. The Physical Processes of Land Development

Lot servicing standards and the resulting costs have often been cited as a major determinant of residential lot prices. The purpose of this chapter is to investigate this argument. In doing so, we will wish to make an important distinction between two types of factors that contribute to increased servicing costs. The first is general price inflation which affects costs of labour and materials and the second is increases in the level of services required by municipalities. Most of our discussion will tend to focus on the latter both because servicing requirements are not well understood and because these requirements are under municipal and provincial control while general price inflation is not.

The conversion of raw land to serviced land suitable for building lots involves a series of steps varying in degree from relatively simple to extremely complex, depending upon local requirements. The standards for subdivision servicing that are now used in Canada have for the most part been set by each local municipality. Many of the basic standards were set before the present generation of engineers were born and are now old tradition. Some will be found as valid today as when they were established, but others seem to have become obsolete. In recent years, much research has been carried out for the purpose of identifying more efficient and economic standards. Many improvements have been identified, but their implementation in the ground is progressing very slowly indeed.

The requirements for servicing are a function of many factors governed mostly by local conditions. For example, septic tanks may be acceptable in semi-rural areas but generally are not acceptable in urban areas. Economic considerations are important since the level of services must be set within the economic limitations of the house buying market. Soil, topography and climatic conditions are important for a wide variety of reasons. In some areas, all underground services must be installed in trenches blasted in rock, whereas other areas have a soil that not only permits easy digging but almost total infiltration of runoff waters, thus eliminating the need for storm sewers.

In most areas, the availability of sewage treatment facilities is the major factor in providing serviced land. Except where septic tanks or similar individual treatment facilities are acceptable, a site must be able to be serviced by a municipal sewage treatment plant, either existing



or proposed. A new plant can be located reasonably close to the urbanized area if a suitable receiving stream is available; otherwise it will have to be located downstream at a point where the receiving body of water is sufficient to accept the effluent from the plant.

The trunk sewer required between the plant and the subject property may have to go through private lands requiring easements, which often can be difficult to obtain. Until a suitable connection to the property can be made available the site cannot be developed.

The selection of location of trunk sewers as well as the financing is usually a municipal responsibility. Development will therefore have to wait until the municipality is able to undertake the work, unless the developer is willing and able to participate in the financing of the trunk severs.

Municipal water supply must also be provided before development can commence. Next to the availability of sanitary treatment capacity, water supply has often been the most important factor in deciding if and where development should proceed.

Outlet for storm drainage must also be provided. The past practice of collecting storm runoff as fast as possible by direct connections of roof water to storm sewers and installing a liberal number of catchbasins, both on streets and rear lots, has in recent years been challenged by the exactly opposite technique, namely reducing the runoff by maintaining or increasing the predevelopment percolation rate and by reducing peak rate of runoff by various forms of on-site detention. The new technique would thus permit development in areas where development has been curtailed in the past due to flooding and erosion problems in existing streams.(1)

After the basic servicing requirements have been established and trunk facilities arranged for, the site will have to be serviced with some or all of the following services: a) sanitary sewers; b) storm sewers or ditches; c) watermains and hydrants; d) house service connections; e) paved roads with curbs and gutters; f) sidewalks; g) street lighting; h) hydro supply; i) gas distribution. Each of these services will have to be designed to accommo-

<sup>(1)</sup> Source: "Zero Increase in Storm Water Runoff" by Paul Theil & Associates. Published by Housing & Urban Development Association of Canada.



B. The Contribution of Servicing Costs to the Total Costs of Building Lots date the projected demand. The design is usually carried out by an independent consulting engineer engaged by the developer but subject to established municipal standards.

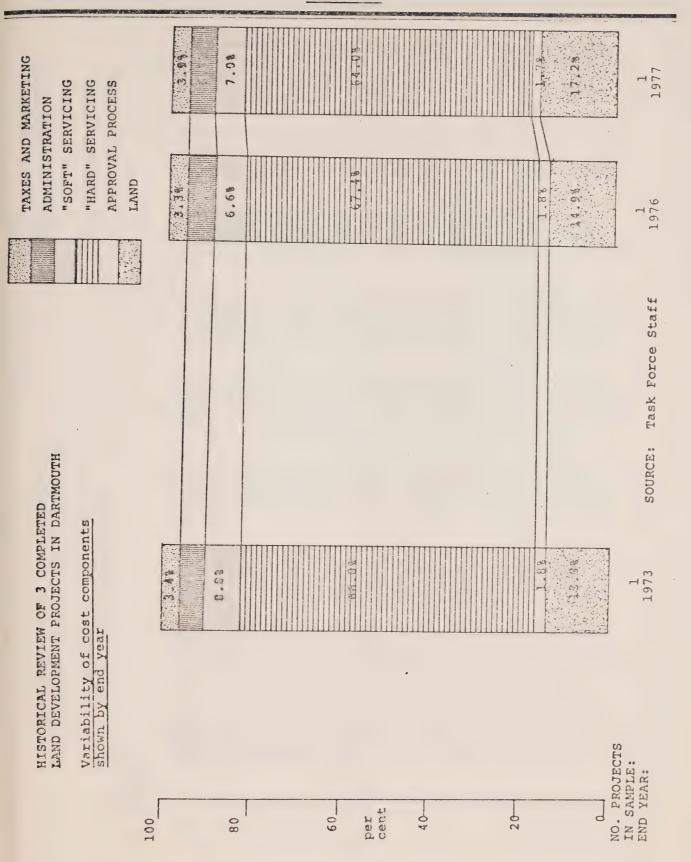
In order to understand the importance of servicing costs in the total costs of producing building lots, the Task Force studied the cost components of various development projects over time across the country. The results of five of these studies are shown in Tables 8.1 to 8.5. These tables show the cost components of various development projects over time for respectively, Dartmouth, Ontario (Toronto, Ottawa, London), Winnipeg, Regina and Vancouver. The statistics for Ontario and Vancouver were compiled from a lengthy questionnaire prepared by the Task Force staff in cooperation with the consulting firm of Peat Marwick and Partners which acted on behalf of the participating developers. The nature of the questionnaire, the project selection procedure, and the verification procedures followed by the Task Force staff are all discussed in the next section. Table 8.1 (Dartmouth), Table 8.3 (Winnipeg) and Table 8.4 (Regina) were prepared by the Task Force staff.

A basic problem in cost analysis of this type is that some costs are incurred early in a project's life and must be financed over several years while other costs are incurred very near the end. As discussed in the next section of this report, we thus decided to capitalize all costs at an imputed interest rate which was the prime bank rate for the year plus two percent. Tables 8.1 to 8.5 thus show the breakdown of total capitalized costs for the end year of the project.

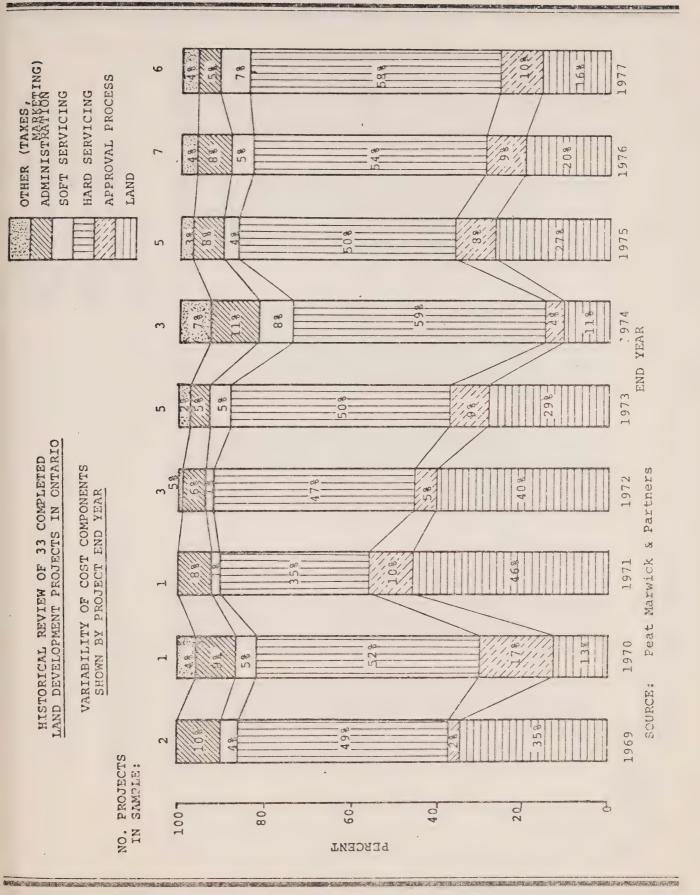
These figures show that "hard" servicing costs (i.e. the costs for the physical improvements to the raw land) were generally the single most important component of total costs. The only exceptions are one project ending in 1971 in Ontario and the projects ending in 1976 in Vancouver. In these cases, land costs formed the most important components. Approval process costs, "soft" servicing costs (basically consultants' fees), and other costs made up the balance.

A second conclusion that emerges from Tables 8.1 to 8.5 is that hard servicing costs made up a much larger percentage of total costs in Dartmouth, Winnipeg and Regina than in Ontario and Vancouver. This does not, of course, imply that servicing costs were higher in the former areas. Rather, it is likely a reflection of the fact that land costs were significantly higher in the latter two areas.

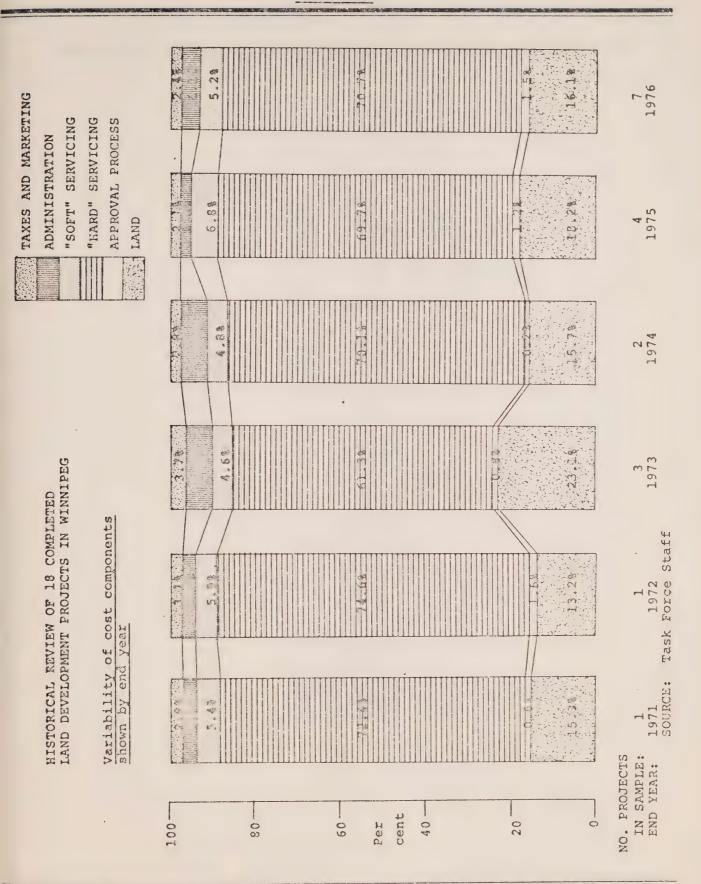












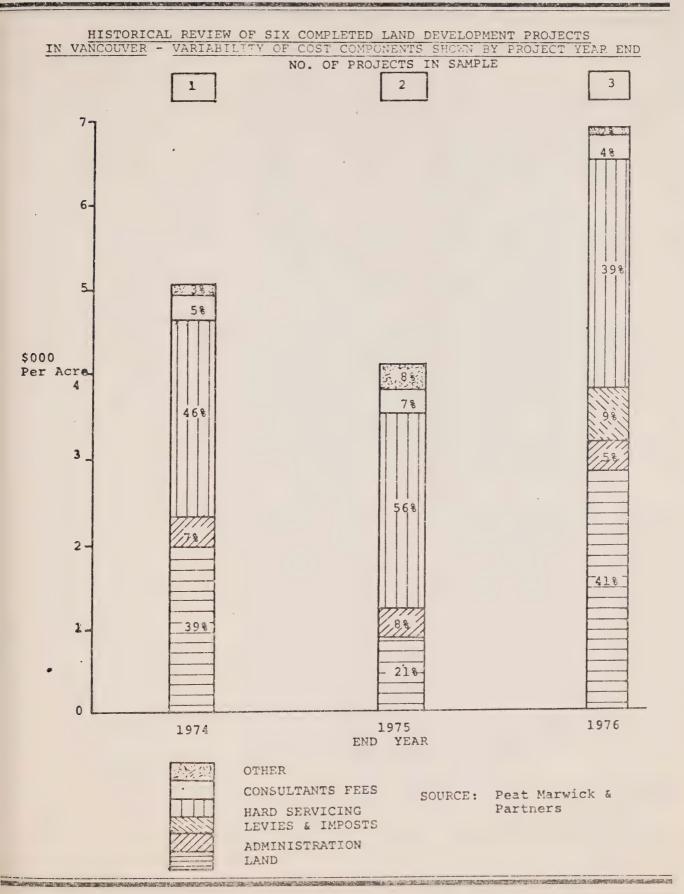


HISTORICAL REVIEW OF ONE COMPLETED LAND DEVELOPMENT PROJECT IN REGINA COST COMPONENTS, 1974



Source: Task Force Staff







A third and final conclusion that can be drawn from these data is that no consistent trend emerges over time in Dartmouth, Ontario, Winnipeg and Vancouver. The data are, of course, very limited due to the small sample size. We can, however, certainly say that the data do not support any theory that suggests servicing costs or indeed any component of costs have become a relatively more important component of total costs over time.

The fact that servicing costs have not risen significantly faster than other costs does not, of course, mean that there is no cause for concern. We shall, therefore, now turn to the absolute changes that have occurred in servicing costs and some of the reasons for those changes.

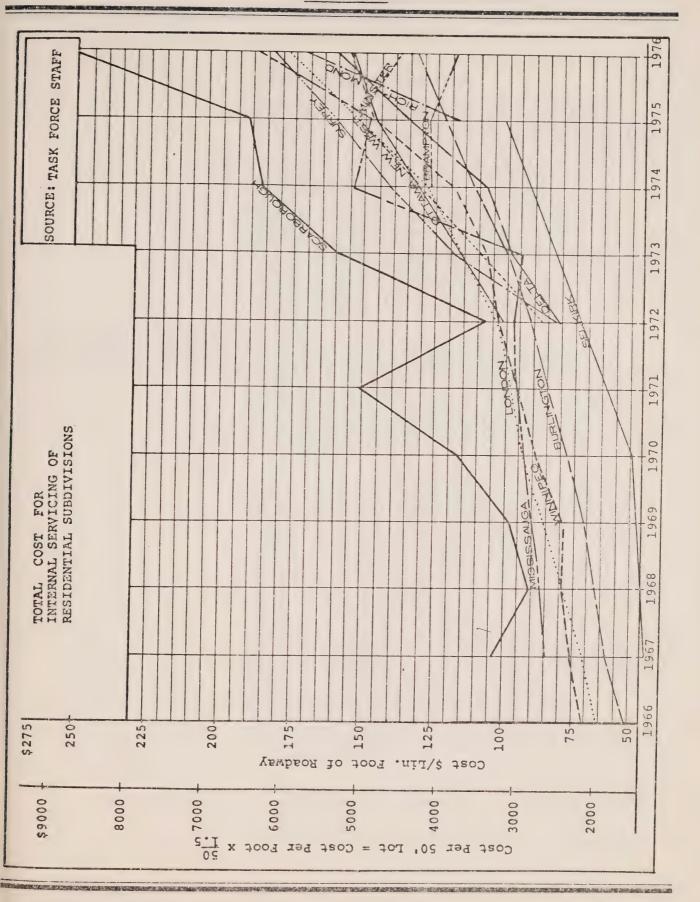
## C. Trends in Servicing Costs

Internal servicing costs for selected municipalities are shown over time in Figure 8.1. Costs were provided to the Task Force by consulting engineers across the country and are tabulated in Figure 8.1 on a \$ per lineal foot of road basis. The influences of general national price inflation beginning in 1972 are very obvious in Figure 8.1. Price inflation was reflected all across the country in servicing costs and as noted earlier there was little or nothing that individual municipalities and provinces could do about this powerful national and indeed international force.

But Figure 8.1 also shows a fair amount of variation among areas despite the general rising trend. Since labour and materials costs do not vary widely among the areas studied, it is likely that much of this variation can be explained by differences in servicing standards. Indeed, Figure 8.1 shows that in 1976 the largest difference of all occurs between Scarborough and Brampton of the Toronto region, where both municipalities of necessity have similar climates, soil, topography, labour costs and materials costs. Because these important factors can be held constant for these two municipalities, it seems most appropriate for the purposes of this Report to present a case study of the differences between them in order to present an in-depth appreciation of the role played by servicing standards. Readers interested in detailed data on servicing standards all across the country are referred to the Task Force Research Studies Volume, Chapter 9, on servicing standards.

Prior to the case study, a definition of "excessive standards" would be useful. Excessive standards are standards which provide a higher level of service than is needed. An example is the requirement for sidewalks on both sides of minor local







roads such as cul-de-sacs.

Additionally, some standards are outdated by improper or obsolete engineering techniques. example is the requirement in some municipalities that storm sewers be installed at increased depth to permit foundation drains to be connected by gravity. This will result in increased risk of basement flooding (explained later) as well as more costly sewers. Another example is the requirement in some municipalities that watermains be a minimum of six inches in diameter, even when they are beyond the last hydrant and serve only domestic use with a low demand; on dead-end streets, this often results in sediments in the pipes, requiring more frequent flushing, which could have been avoided if pipes had been sized based on flow requirements.

D. Differences in Standards
Case Study 1: Scarborough

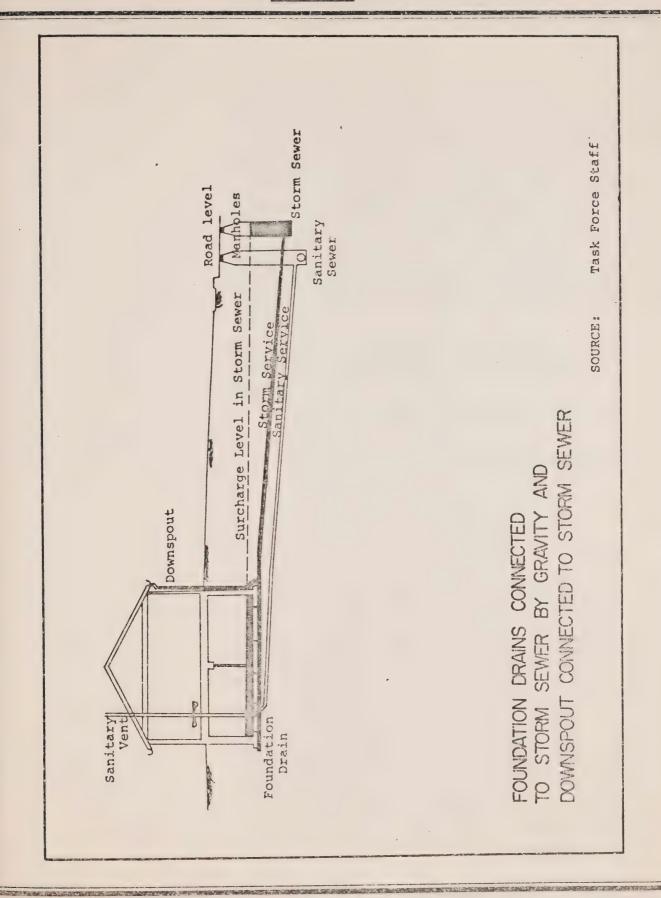
When we compare the individual costs for Scarborough with those of other municipalities, it is evident that the storm sewers are very expensive indeed, representing in 1976 \$71.00 per lineal foot of road as compared to the 21-city average of \$38.00(1) and as compared to \$21.25 in Brampton. Nevertheless Scarborough also has a high occurrence of basement flooding, even in recently developed urban areas.

Scarborough uses a five year rainfall frequency curve for sewer design which is about the average of the municipalities which responded; but it requires that foundation drains be connected to the storm sewer.(2) This is a technically incorrect method of discharging water from foundation drains. Any runoff in excess of the design capacity, as well as possible obstruction in the sewer system, will obviously cause a back-up into the foundation drains causing a hydrostatic pressure on the basements. If this exceeds six to ten inches above the basement floor, the floor will crack and let storm water flow into the basement. This will flow via the floor drains into the sanitary sewer system and cause an overloading of that system, resulting in turn in back-ups of sanitary sewage in basements downstream which may, due to different sewer elevations, not have been subjected to excess hydrostatic pressure from the storm sewers. This sequence explains to a great degree the reasons for the severe flooding problems in Scarborough and in

<sup>(1)</sup> Complete data sets are presented in Chapter 9 of the Task Force Research Studies Volume.

<sup>(2)</sup> This is shown diagramatically in Figure 8.2.







several other Canadian municipalities.

Scarborough has not as yet recognized the dual drainage concept (minor-major) which permits runoff in excess of the pipe capacity to follow surface routes to an acceptable outlet without causing hydrostatic pressure on basements. Scarborough does not, for residential streets, appear concerned with flows in excess of the five year design frequency intensity, with the result that much damage has occurred to basements during storms of higher intensity. When it is also recognized that Scarborough is reported to be one of the municipalities where approvals for engineering drawings are most difficult to obtain, one may question if the approval procedure is more oriented towards optimum drafting standards or towards the best engineering design.

Now we have a better idea of the reasons for the flooding, but why are the costs so high? A further analysis indicates some unusual requirements, namely:

- concrete rather than crushed stone as bedding for sewers;
- 2. sewer pipe 21" in diameter and larger must have two manholes to make a 90° turn in flow;
- curvilinear sewers only permitted for sewer 30" or larger in diameter.

These standards are both excessive and outdated.

The same phenomenon is also found elsewhere to varying degrees, namely sewers costing more but giving less value than sewers costing less but giving more value, as in Brampton. Scarborough's sanitary sewer and watermain costs are reasonable when compared to other municipalities reflecting similar standards. But Scarborough's road costs are the highest of all next to those of Mississauga. Standards for pavement widths are high for minor local roads, but about average for the others. Sidewalks are, however, required on both sides of all streets, even minor local, and this requirement certainly explains part of the high cost. The fact that Scarborough generally has storm sewers much deeper than most other municipalities results also in more trench settlements, requiring more repairs during the contractor's maintenance period, which further causes the costs to go up. With the foundation drains connected by gravity to the storm sewer, and to prevent cross-



over conflict with the sanitary sewers, the depth of cover over the sanitary sewer is often increased beyond what is otherwise necessary. The high cost of roadwork, when compared to other municipalities, is due in part to the requirement of extra manholes at intersections for pipes 21" diameter or larger. This can triple the number of manholes at intersections, thus increasing the cost of compaction around the manholes, and adjustment of manhole tops to final grade prior to paving. Since road construction and maintenance increases with the number of manholes in the street, this factor must be allowed for in the construction costs.

It is evident that the standards in Scarborough are high in terms of cost but low in terms of performance.

In the absence of analysis, one might expect the municipality with the lowest reported costs to have the lowest standards. From Task Force data we find that the costs in Brampton for the year 1976 were \$129.21 per linear foot of road, compared to \$271.00 in Scarborough. A detailed analysis of the standards and the costs reveals the following.

## Case Study 2: Brampton

The costs stated are for developments similar to those used in the Scarborough analysis, except only that new design techniques were used. These techniques are in part based on experiments carried out in the Central Park Development in Bramalea before the introduction of Regional Government, with later modifications as required by the City of Brampton and the new Region of Peel. The innovative servicing techniques used in Central Park before Regional Governments resulted in an average cost per foot of road of \$73.65 in 1972, \$80.63 in 1973 and \$88.05 in 1974. However, after the introduction of Regional Government on January 1, 1974 some of the new techniques were no longer permitted. As a result of this, as well as the fact that the Central Park Development was a Comprehensively Planned Development (C.P.D.) permitting the highest efficiency not only in planning, but also in servicing, the servicing costs increased to \$140.03 per foot in the latter part of 1974 but declined somewhat in 1976 to \$129.21.(1)

The following is an analysis of costs for a conventional development carried out in Brampton in 1976, still, however, using more value-effective servicing

<sup>(1)</sup> Again, complete data sets and documentation are provided in Chapter 9 of the Task Force Research Studies Volume.



standards. It is obvious these standards result in much lower costs than those experienced in Scarborough in the same period, but how much lower are the standards used in Brampton? If we look at the cost of storm drainage, we find a cost in Brampton of \$21.25 per foot of road which compares to \$71.00 for Scarborough. However, the Brampton example uses an additional sewer in the street to serve foundation drains only. This is illustrated in Figure 8.3. Since this pipe is installed in the same trench as the sanitary sewer and the cost is not separated, we must compare the total cost, which is as follows:

	Storm Sewer	Sanitary Sewer	Total
Scarborough	\$71.00	\$15.00	\$86.00
Brampton	\$21.25	\$16.63(inc. F.D.C	.)\$37.88

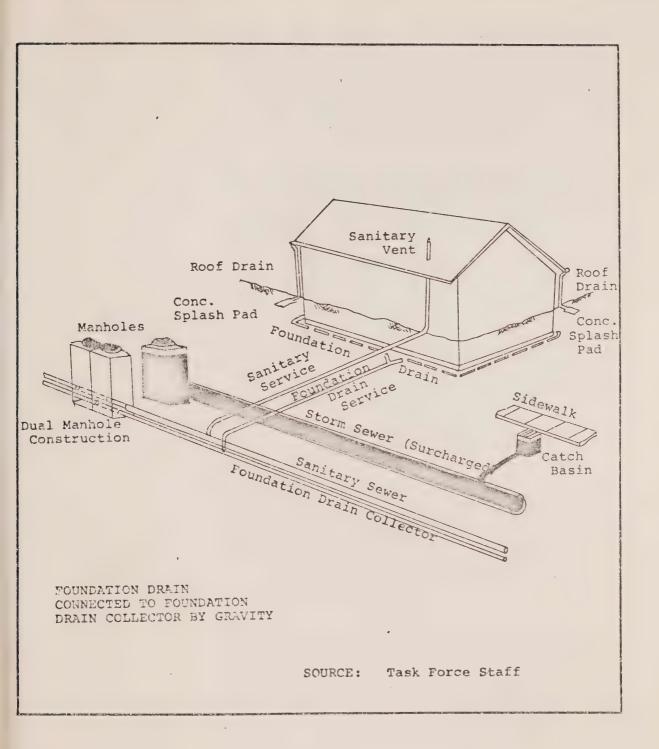
In other words, the 3-pipe system in Brampton costs less than half of the 2-pipe system in Scarborough.

A comparison of the standards reveals that Brampton recognizes the dual drainage concept with the following criteria:

The storm sewer (minor system) is designed as a convenience to pedestrian and vehicular traffic, with all runoff from a storm with an intensity of a two year frequency for residential areas to be accommodated in the pipes. Excess runoff is accommodated overland by a carefully designed road system preventing flooding of private properties for storms with an intensity of a 25-year storm or higher. (In many instances a 100-year storm can be accommodated.) Since foundation drains are not connected to the storm sewers by gravity, there is no possibility of hydrostatic pressure being exerted on basements, with resulting structural damage and flooding. The foundation drain collector is being used extensively in Brampton as an alternative solution for an outlet for foundation drains. The reasons were that the Region would not permit connections to sanitary sewers and individual sump pumps were found less satisfactory on such a large scale. This solution of the foundation drain collector is technically and economically very superior to the system used in Scarborough and many other municipalities.

In summary, the standards used for storm drainage in Brampton not only result in substantial cost savings but, from a technical point of view, give many times more protection against flooding than







those used not only in Scarborough, but in many other municipalities as well. What cannot be explained, however, is the resistance by many municipalities to part with the old and technically inferior standards. The fact that neither the federal agencies nor provincial agencies involved in storm drainage seem to want to take the steps necessary to make the changes that are long overdue is not easy to understand either.

We also notice a marked difference between Scarborough and Brampton in the cost of construction of roads. The Scarborough cost of \$98.00 per foot including sidewalks compares with \$45.89 per foot in Brampton. The lower costs in Brampton are due in part to:

- less trench settlements because of shallower storm sewers;
- 2) fewer manholes;
- 3) 26 foot pavement on roads (cul-de-sacs and small crescents) rather than 28 feet;
- 4) sidewalks not normally required on minor local roads and only on one side on other residential streets;
- 5) using a type of concrete curb more resistant to damage from builders' traffic thus reducing replacement cost.

This example compares two municipalities, which although in close proximity to one another have the widest spread in costs among the municipalities studied. This difference in 1976 was about \$140 per lineal foot of road or about \$4,600 per lot.

(1) This is of course coupled with the fact that the servicing standards in the municipality with the lower costs (Brampton) will yield a higher level of performance.

Unjustified and obsolete servicing standards where they exist are probably due to one or more of a number of factors. Often high standards seem to result as a solution to past problems. Larger storm sewers are designed in response to past flooding, for example. Often, however, the solution in spite of the extra costs does not solve the problem and in fact creates a more serious new problem. Larger storm sewers for example can move

<sup>(1)</sup> The relation between the two measures is shown in Figure 8.1.



flooding downstream where it becomes more serious. Second, there seem to be many cases where standards are merely an inappropriate copy of standards in some other municipality.

In some cases municipalities will ask for oversized services to accommodate anticipated future needs. This should not be classified as an excessive standard if the plans for future work are reasonably firm and the additional cost of oversizing is properly evaluated in comparison to installing additional services later. An example of a good balance between cost and benefit is oversizing of trunk sewers, to allow for future growth. By increasing a pipe size by 3" in diameter, the capacity will increase by 25% to 50%, whereas the cost will only increase by 5% to 10%, all depending upon the size of the pipe.

The root of the problem appears to be that some municipalities recognize only traditional experience and strongly resist the significant technical advances that have occurred in the past decade. Municipalities usually do not have qualified staff to carry out the necessary research to properly review and apply new techniques. Politicians take a dim view of experiments particularly if success cannot be guaranteed. Municipal officials are likely suspicious that consulting engineers acting for developers are concerned only about initial costs and not about future maintenance costs. Finally, senior levels of governments which could coordinate and fund research into municipal servicing have so far made very little effort to do so, at least not in terms of practical results.

The fact that the improvements spread at such a slow rate may to some degree be the result of the concern that where cost savings result, they may not be passed on to the home buyer. An example of this attitude is a recommendation to the Scarborough Council dated June 4, 1975 by the Engineering Department:

"Unless it can be guaranteed that reducing the level of servicing will be passed on to the eventual homeowner, no reduction in the level of servicing will be considered at this time."

But the resistance does not always stop there, as evident from a subsequent recommendation by the same Department to Scarborough Council on June 18, 1976:

"that developers and their consulting engineers be made aware that any attempt to circumvent



existing standards will slow the approval process, cause loss of credibility of the industry and above all, increase costs."

In areas both in Canada and the United States where innovative servicing methods are being used, the result has been very successful. There is ample evidence that the new techniques can provide services at an equal or higher level, at substantial cost savings as well.

E. The Effects of Increased

Servicing Costs on Lot

Prices

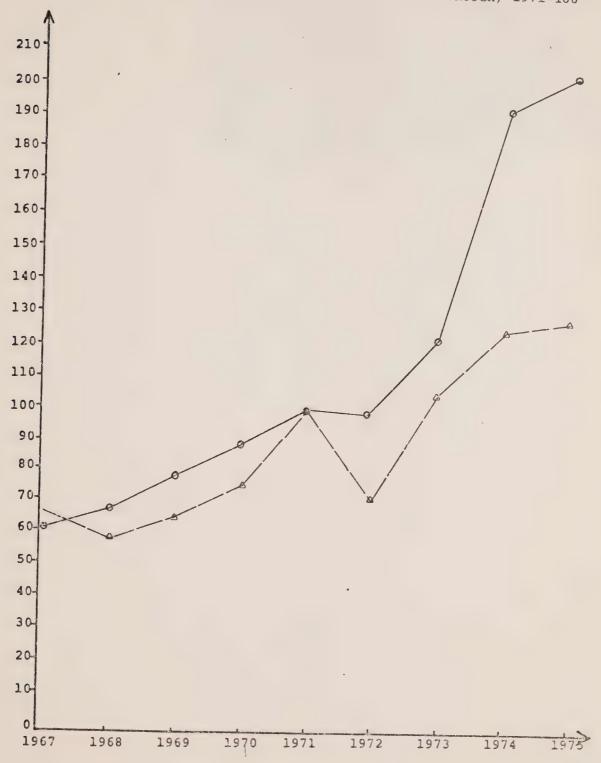
We are now in a position to examine the degree to which rising servicing costs have contributed to rising lot prices. The answer to this question is virtually the same in all urban areas across the country: changes in servicing costs were closely related to changes in lot prices up until 1972-73 at which time lot prices rose at a much faster rate than servicing costs through 1975. This proposition is illustrated in Figure 8.4. The broken line in Figure 8.4 presents an index (1970 = 100) of servicing costs in Scarborough derived from Figure 8.1. Scarborough was chosen here because its costs generally increased very rapidly during the years 1972-75 as shown in Figure 8.1. This index is compared in Figure 8.1 to a second index (1971 = 100) of Toronto lot prices from the NHA data in Table Al of the Appendix. It is generally felt that these data had a downward bias during the boom years. Thus Figure 8.4 compares a lot price index with a downward bias during the boom years to a servicing cost index that rose as fast or faster than average during the boom years. We see that up to 1973, these two indices moved very closely together. In 1974-75, however, lot prices exploded and appreciated far faster than servicing costs. Similar patterns occurred almost everywhere.

This example is constructed with a deliberate bias in favour of showing that increasing servicing costs were a large contributor to the price boom of 1972-75. Yet the data reject this hypothesis in a rather dramatic fashion. Even larger divergences between lot prices and servicing costs occur in many other cities across the country. Contrary to the claims of a number of analysts, the Task Force thus concludes that servicing costs were not a major contributor to the boom.

This certainly does not suggest that the Task Force concludes that the problems mentioned earlier in this chapter are not of significant importance. As has been emphasized in several of the earlier chapters almost all areas across the country no longer have a land prices boom. Thus factors affecting lot supply are most certain to again play



SOLID LINE - LOT PRICE INDEX (TORONTO) 1971=100 BROKEN LINE - SERVICING COST INDEX (SCARBOROUGH) 1971=100



SOURCE: Figure 8.1 and Appendix 1



an important role in long-run price determination over the next few years. Servicing costs are one of the most important of these factors and our analysis has suggested that these costs are significantly affected by municipal standards. Adoption of new technology and reasonable standards in Brampton was seen to reduce costs \$4,600 per lot relative to Scarborough. While this may be extreme, savings of smaller amounts ought to be possible if similar attitudes are adopted elsewhere. Some of these savings would be passed forward to consumers under current market conditions.



Various chapters of this report deal in detail with particular aspects of land development. Raw land prices, taxation, servicing, and the subdivision approval process either have or will receive attention. We have not, however, discussed individual development projects in a unified way. Nor have we said much about the development corporations that make up the land development industry. The purpose of the present chapter is to deal with both topics. The first part of this chapter will present and discuss data on a number of development projects in Ontario (Toronto, London and Ottawa); Alberta (Calgary and Edmonton) and Vancouver. The second part will present a financial analysis of some of the dominant firms in the industry.

In order to obtain a better understanding of the development process, the Task Force undertook a Developer Survey which provides specific historical information on the characteristics of specific development projects carried out during the period from the early 1960's to the present time. The information collected in the survey describes selected projects in terms of their land assembly, the approval process, servicing unit costs and the sale of lots. In addition, detailed financial information describes the costs and revenues of each project on an annual basis and permits the estimation of profits on the basis of the time value of money.

The data were compiled from a lengthy questionnaire prepared by the Task Force staff. Peat Marwick and Partners acted on behalf of the participating development corporations. The selection of the development projects for analysis was carried out in close coordination with the Task Force staff. Meetings were held where the Task Force staff participated in the selection process and agreed to the sample of projects chosen for analysis in Ontario and Alberta. As the data were collected, Task Force experts in finance, accounting, land development, engineering and planning, checked and verified the accuracy of the data. Somewhat less monitoring was done by the Task Force staff for the projects chosen for Alberta and British Columbia simply because the Task Force was satisfied that the methodology would produce results of comparable quality to the Ontario results.

The survey dealt only with successful companies and largely with successful projects; indeed the Task Force devoted considerable effort to ensuring that many of the individual projects were very successful, in the category of "big winners". Dealing only with successful companies likely puts an



upward bias on profit figures. Furthermore, an analysis limited to successful projects is not fully representative of losses in the land development business.

It is also important to note that the individual completed projects analyzed present an historical review only of what occurred during recent years, and this is essentially a highly inflationary period. They are not fully representative of current conditions in the land development business and extreme caution must be used in drawing conclusions about the future of land development. A good deal more will be said about this problem at the end of this chapter.

Simultaneously, the Task Force commissioned a financial analyst to prepare a study of the overall financial performance of land development corporations. This was done for two purposes. First, it allowed us to see how the performance of the corporations as a whole compared to their performance on individual development projects. Second, it served as a check on the accuracy of the figures provided by the developers in the Developer Basically, our conclusion on this matter is that there is no reason to believe that the data contained in the Developer Survey is not accurate. Similarly, the results of the Developer Survey are quite consistent with the servicing figures compiled by the Task Force's consulting engineer which were presented in the previous chapter.

A. Results of the Developer
Survey

The questionnaire prepared for the developer survey requested the following information: (a) the costs and revenues by year for each project; (b) the assembly schedule; (c) the steps in the approval process and their timing; (d) servicing unit costs; and (e) the sales schedule including number of lots sold. Costs were recorded for each year of the project's life according to the following categories: (a) land cost; (b) levies and imposts; (c) other approved process costs; (d) land servicing costs (sewers, roads, landscaping, etc.); (e) soft servicing costs (primarily consultants); (f) marketing costs; (g) taxes; (h) administration; and (i) other miscellaneous costs. Revenues were also recorded for each sales year according to their type (interim farm use, internal transfer, sales to third party).

For Ontario, listings of all major projects carried out since 1963 were requested and received from the 13 development corporations (ten public; three private) involved. The projects were listed by name, location, size in acres, year the



assembly commenced, year development (servicing) commenced, year sales commenced, and by one of three estimated levels of profitability. Of the approximately 150 projects submitted, 115 or 77% of the total were completed or significantly into a sales program. Thirty-one projects were eliminated from the total universe for reasons of small size (less than 50 acres) or location in market areas that were not of specific interest to the Task Force. It should be noted that the elimination of these 31 projects removed from the sampling universe all projects which had been listed as unprofitable.

Eighty-four projects were retained for detailed classification according to the characteristics listed above and for a distribution analysis. Of the 84, a target sample of 35 was chosen which represented the same profile of characteristics as the 84 projects. Of the 35 projects requested from Toronto, Ottawa and London, 33 responses were given. One of the 35 could not be completed due to lack of early records, and another was more appropriately classified as a joint venture purchase and sale without any actual development to the land.

In the Alberta market 67 projects were submitted. Of these, 62 or 93% of the total were completed or significantly into a sales program. Three of these projects were eliminated from the universe as they were not in the Calgary or Edmonton markets, the only areas of specific interest to the Task Force. Fifty-nine projects were retained for detailed classification according to the characteristics listed above and for a distribution analysis. Of the 59, a target sample of 13 was chosen which represented the same profile of characteristics as the 59 projects.

In the Vancouver market 8 projects were submitted; these were all completed or significantly into a sales program. These 8 projects were all included in the target sample.

Of the 13 projects requested in Alberta, 12 responses were given. One of the 13 could not be completed due to a lack of data for earlier years. Of the eight projects requested in Vancouver, six responses were given. Two of the eight projects were more appropriately classified as sales without any actual development of the land.

The first analysis performed on the data from these projects was designed to show the movement of costs and revenues over time. Since the cost streams



associated with a land development project take place over several years, it is necessary to bring them to a common base in order to make valid comparisons of trends. These comparisons are complicated by the fact that projects are of considerably different durations, and show considerably different patterns of cost and revenue timing. These facts present two problems. First, the inflationary environment during which the projects were undertaken was strong, particularly in the areas of land and construction costs. Thus, inter-year comparisons are misleading unless the data are corrected for price level changes. In addition, costs must be financed over a period of time, often several years, before they generate significant revenues.

Our decision was that all costs and revenues should be capitalized at an imputed interest rate. This interest rate is equal to the prime bank rate for the appropriate year plus two percent. Since, in general, interest rates reflect the overall rate of inflation capitalizing costs and revenues in this manner has the effect both of compensating for inflation, and of accounting for a portion of the cost of financing improvements during the period before these improvements generate significant revenues.

Table 9.1 presents the average cost and revenue changes per acre for the 51 projects. The time periods noted with each province are the periods spanned by the end years of the projects in that province. Table 9.1 shows that land costs during these years grew significantly faster in all areas than the consumer price index (CPI) which is presented for comparison. Total costs rose slower than the CPI as did total revenues per acre in Ontario. Net revenues, however, increased at slightly more than double the rate of increase in the CPI in Ontario establishing that overall the period was one of increasing profitability. Total costs in Alberta rose slower than the CPI while total revenues rose significantly faster. Exactly the opposite result is presented for Vancouver. Unfortunately, Peat Marwick did not provide the Task Force with changes in revenues for Alberta and British Columbia. As a final point, we might note that these data also lend strong support to a finding advanced earlier in the chapter on servicing costs; price rises in recent years have not been primarily caused by increases in costs.

Internal rates of return were calculated for all projects and portfolios of projects. This methodology permits an assessment of the profitability of



Historical Review of 51 Completed Land Development Projects in Ontario, Alberta and British Columbia

Annual Rates of Change in Costs and Revenues

per Acre

	,	Annual Rates of Cha	nge .
	Ontario 1969-1977 (33 projects)	Alberta 1971-1976 (12 projects)	British Columbia 1974-1976 (6 projects)
Land Cost	11.0%	20.5%	28.0%
Servicing Cost	8.0%	13.5%	6.5%
Total Cost	4.5%	7.0%	16.0%
Total Revenue	5.5%	16.0%	3.0%
Net Revenue	14.0%	N/A	N/A
CPI *	6.5%	8.0%	10.5%

<sup>\*</sup> Different CPI figures are due to the different time periods spanned by the three samples.

SOURCE: Peat Marwick and Partners



various ventures, while taking into account the time value of money. The fact that the period under study was characterized by high general inflation presented a particularly difficult problem. The decision of the Task Force was that all financial transactions should be recorded in unadjusted dollars. In other words, they are recorded in the actual dollars paid or received. Consequently, the calculated returns on investment (ROI) include both a real return and an inflationary return. The resulting profit figures are thus higher than they would be if costs and revenues were recorded in constant (adjusted for inflation) dollars - but reflect similar results to those calculated by generally accepted accounting principles.

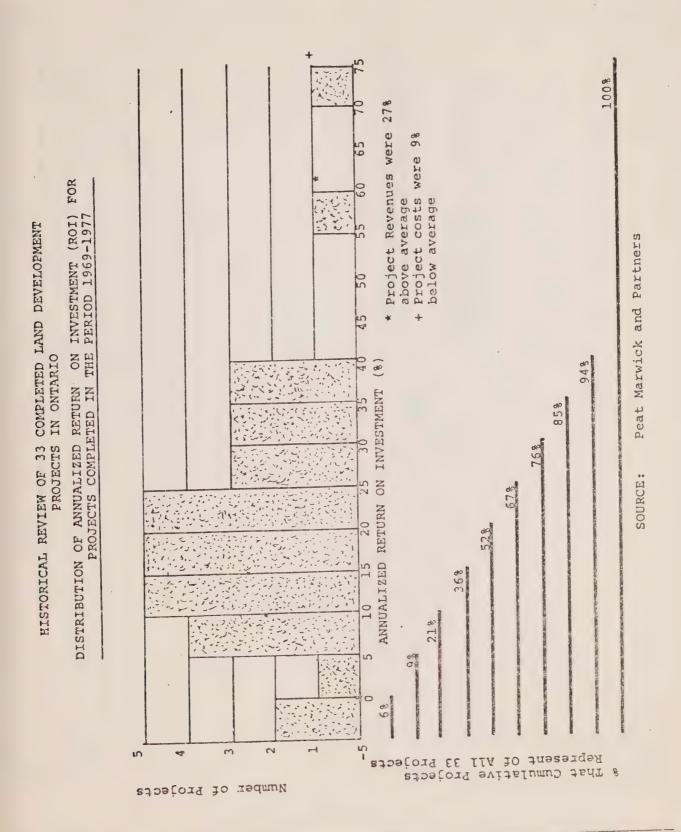
We note that Peat Marwick presented the Task Force with rates of return calculated from after tax profits. Pre-tax profit rates for development corporations are presented in sub-section B below in order to permit comparisons between companies which are not distorted by their differing tax rates.

Figure 9.1 shows the distribution of annualized returns on investment (ROI) for the selected individual projects completed during the period 1969-1977 in Ontario. The median after tax ROI is 18.5%. Simply put, the annualized rate of return on investment is the average return realized in each year of the project. During most of the years of the project, before any sales, the return is negative. In the later years of the project, sales revenues are realized. The ROI analysis smooths out the differences to derive the average annual return.

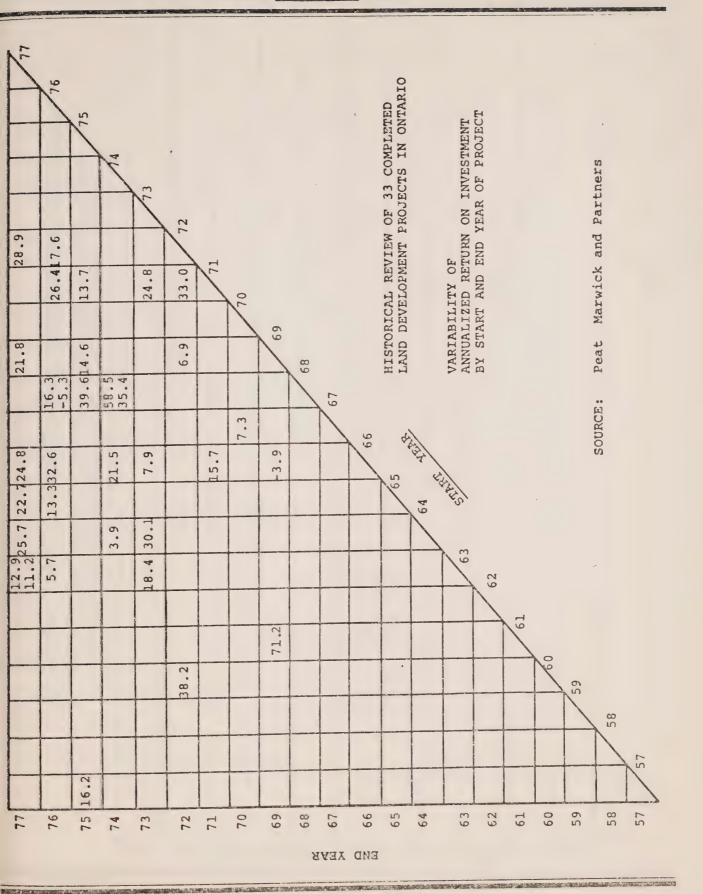
Figure 9.2 plots the data from Figure 9.1 according to the beginning and end years of the projects. Figure 9.3 then plots the ROI's for each project against the duration of the project and Figure 9.4 plots the ROI's against the cost of the project which serves as a measure of project size.

Figures 9.2, 9.3 and 9.4 show a number of important results. In general, there appears to be no strong correlation between the projects' ROI's and the project characteristics of duration and size. Two implications of these findings are of particular interest. First, it appears that projects based on land bought many years prior to development did not earn returns significantly different from returns earned by projects based on land bought only a few years prior to development. In other words, the evidence does not support the view that profit

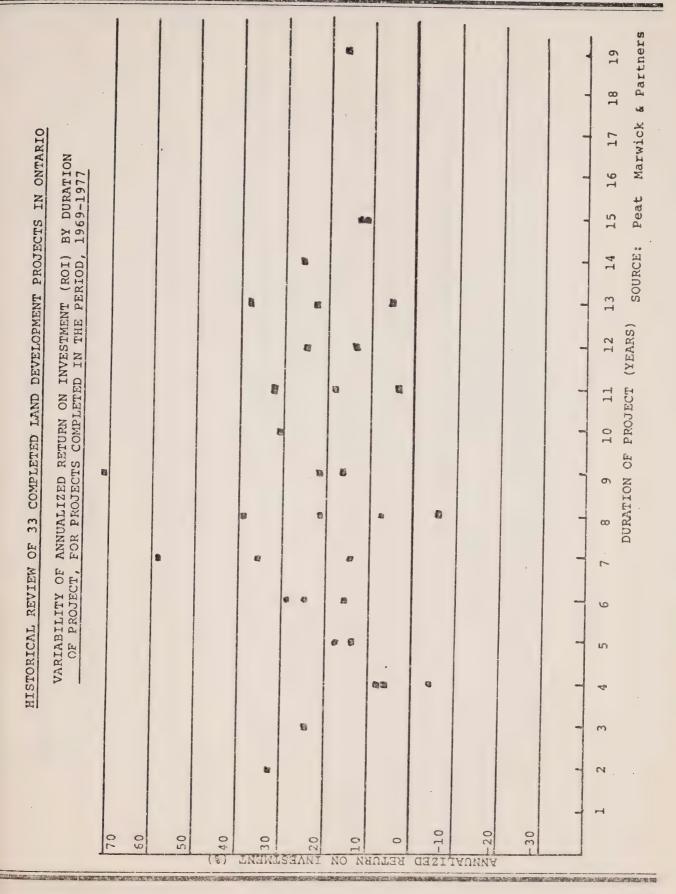




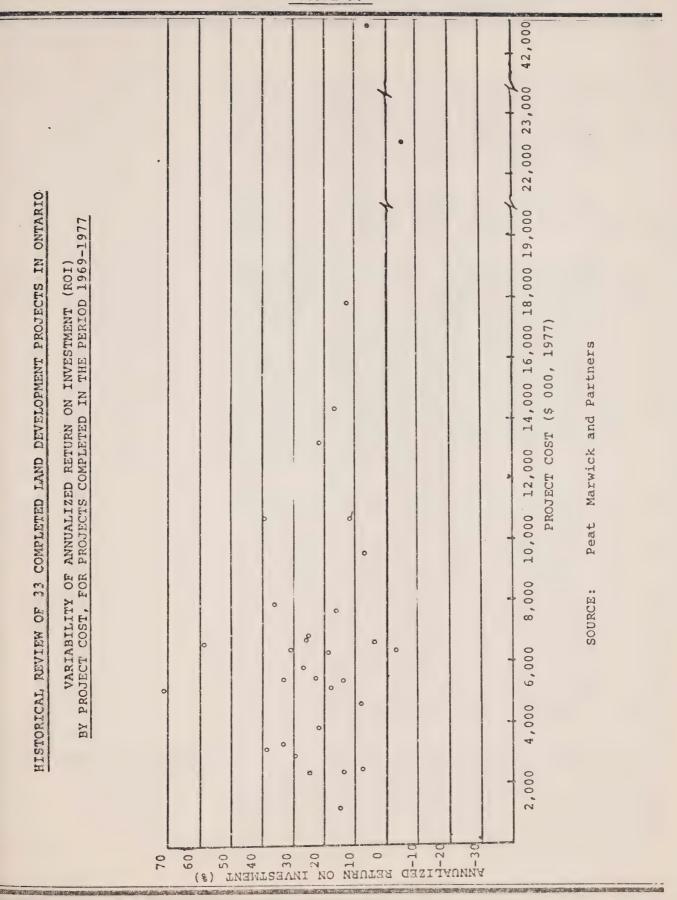














rates were higher the longer the land was banked by the developer. Second, large projects were not more profitable than small projects. In fact it appears that there may be a small negative relationship between size and profitability although the Task Force has not performed a technical test of this proposition.

Both results seem to contradict conventional wisdom. A number of arguments seem to assume, for example, that larger rates of returns are obtained the longer that land is held.

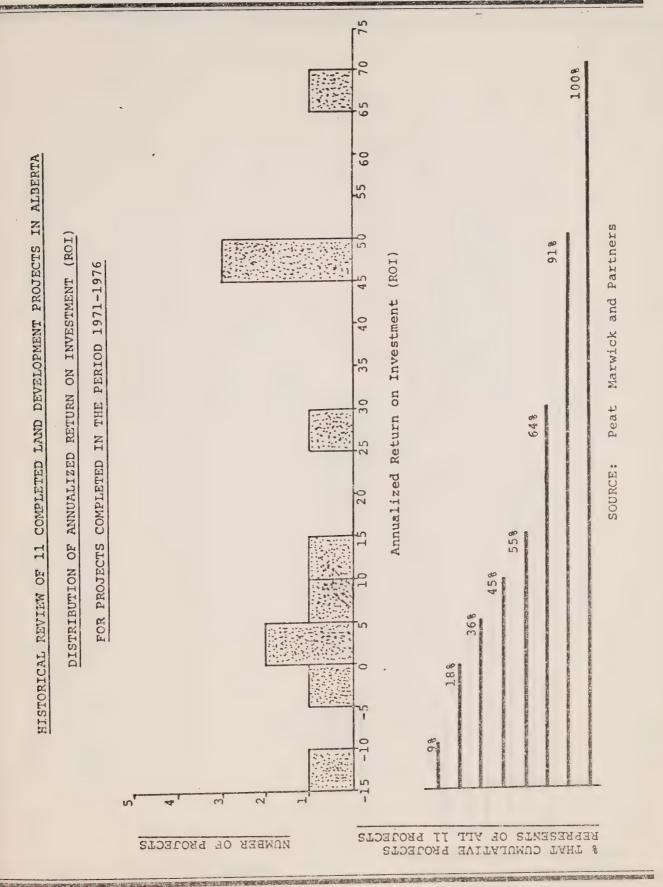
Many analysts also seem to assume that there are increasing returns to scale in land development so large projects are inherently more profitable than small projects. This assumption has also been used to argue in favour of direct government participation in land development on the grounds that the government has the financial resources for lucrative large-scale development. A study by Andrew Muller has used this assumption to argue that there may be barriers-to-entry in the land development industry since increasing returns to scale make entry by new firms difficult. This was discussed in Chapter 7 above on ownership concentration. All of these positions must now be reconsidered in light of the above results.

Results from the west were quite similar. Figures 9.5 through 9.8 present after tax ROI's for Alberta and Vancouver. The median after tax ROI in each case is about 15% which is somewhat less than the 18.5% figure noted for Ontario. However, given the small sample sizes here, this difference should not be regarded as statistically significant. With similar caution due to the small sample size, we can note from the Alberta statistics in Figure 9.7 that the length of the project seems to have little to do with profitability as in the case of Ontario. For the five projects that ended in 1976 and the three projects that ended in 1974, no relation between profit and start year is discernable. Similarly, little relationship was found between project size and profitability. While a small positive relationship was found in Alberta, a small negative relationship was found in Vancouver.

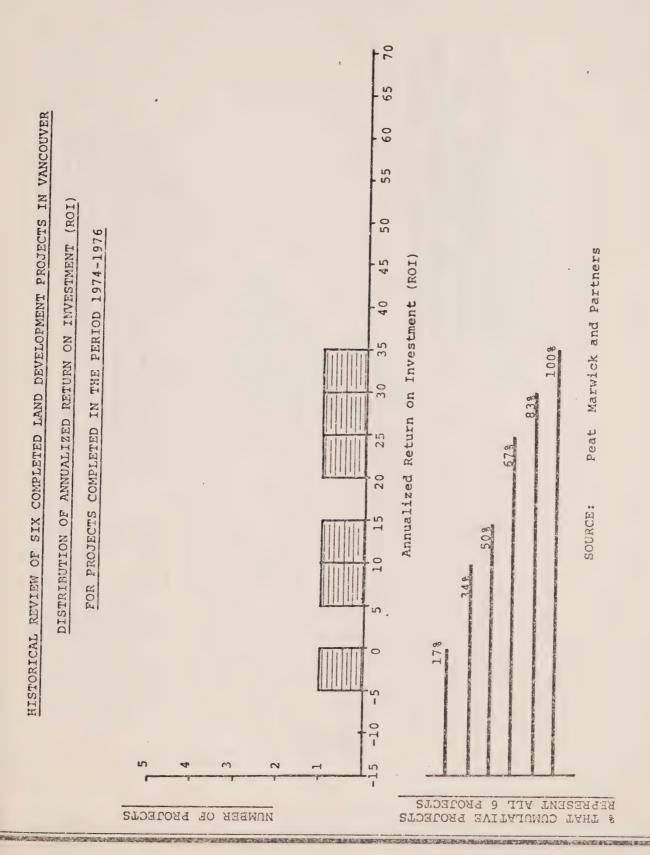
B. Corporate Financial Performance

An analysis of successful individual subdivision projects tells only a limited story about the land development corporations. At any point in time, a corporation consists of a portfolio of projects some of which are in early stages and some of which are near completion. Included in this portfolio is often some amount of "bad inventory": land which now seems like it can never be developed due to

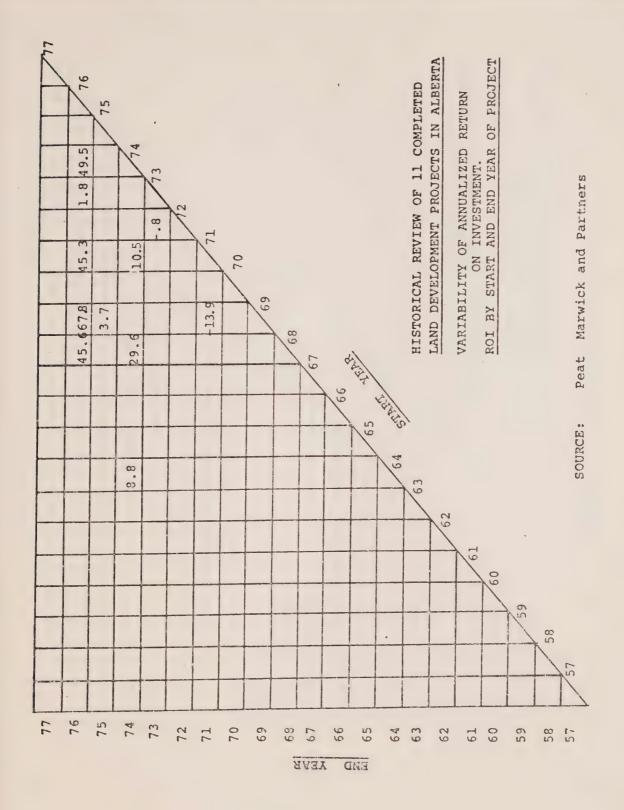




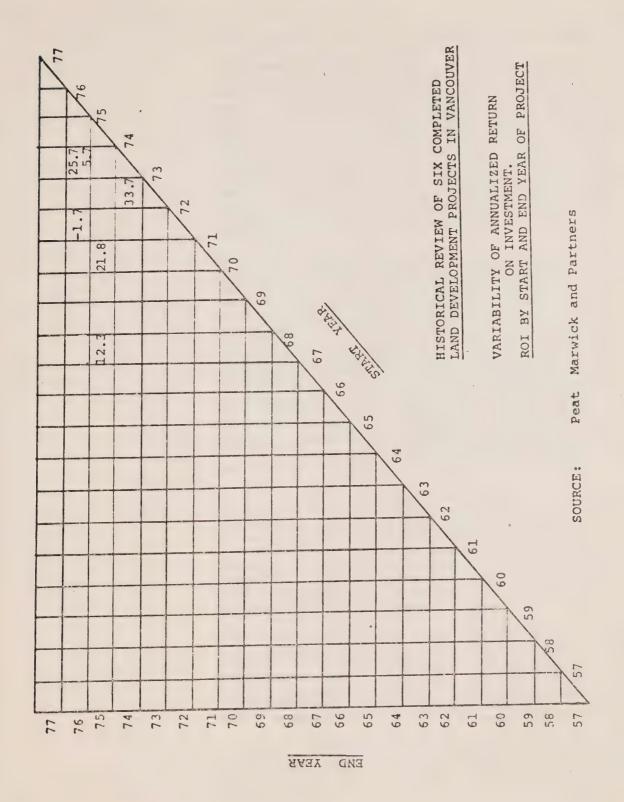














some problem such as an adverse zoning change.

In order to obtain a more complete picture of the land development corporations, our financial analyst undertook a study of the major publicly owned land development corporations for the Task Force. There are many privately owned companies in the business, but data on these companies are not generally available. For reasons he explains in detail in his study, our financial analyst concludes that there is not a great deal of difference between the large private and public firms, however, and an analysis limited to publicly owned firms should not be particularly unrepresentative of the industry as a whole.

Some methodological problems occur in this type of financial analysis and it is probably safe to say that no two experts would proceed in exactly the same way. The companies themselves use a variety of different accounting methods which on occasion makes comparability difficult. Further, most of the firms are involved in a number of activities (e.g., house building, income properties) so that attempts to separate out land development activities are difficult. It is probably not appropriate to conduct a long discussion of these problems in this summary report. One or two of the major difficulties will be pointed out as we proceed, and readers interested in a complete discussion of the financial methodology are referred to Chapter 6 in the Task Force Research Studies Volume.

Table 9.2 gives some idea of the asset levels of 15 leading firms and land holdings as a percentage of assets. In some cases, land development is the primary corporate activity (only Carma is a pure land developer) while in other cases it is a minor activity. Cadillac and Genstar, the two largest companies, are singled out in the total since in both instances, land development is not their primary activity and because each is so large.

One problem with these asset figures is that they are generally historical book values plus carrying charges. The actual market value of the lands is much higher today. However, the market value of income properties is also likely much higher than book value and thus the percentages of land in total assets shown in Table 9.3 may not be far off.

Table 9.3 shows pre-tax profits over time for the fifteen companies. Table 9.4 shows average total assets during the same years and Table 9.5 divides profits by assets to obtain profits as a percentage of assets.



15 Leading Public Real Estate Companies

Total Assets and Land as a % of Total Assets - 1976

(\$ Millions)

Company	Total Assets	Land Held for Future Development	Percent
Genstar	1,233	256	21
Cadillac Fairview	1,269	229	18
Campeau	546	75	14
Nu-West	365	84	32
Bramalea	343	44	13
Daon	270	54	20
McLaughlin	243	83	34
Markborough	186	84	45
Carma	127	69	54
Costain	111	54	49
Consolidated Building	109	36	33
Sifton	100	11	11
Headway	94	8	9
Monarch	66	31	47
Melcor	62	17	27
15 Company Total	5,124	1,135	22
Cadillac And Genstar	2,502	485	19
13 Company Total	2,622	650	25

SOURCE: Task Force Research Studies Volume, Chapter 6.



PRE-TAX PROFITS	(000,\$)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Genstar Cadillac Fairview	5,314	11,010	15,731	11,782	20,143	28,581	48,029	68,974	84,556	102,801	
Campeau Nu-West	1,920	2,157		5,579	8,362	7,999	10,379	11,288	13,510	8,163	25.868
Bramalea	2,295	3,429		(399)	(144)	3,680	7,050	7,357	960'L	13,110	
Daon	70	650	1,577	1,404	1,597	1,834	3,403	0/9/9	14,106	15,391	21,558
McLaughlin	725	1,000	1,262	454	7,534	9,448	6,588	4,819	7,931	8,336	
Markborough	295	871	2,615	1,427	1,057	2,042	12,376	7,425	906'8	18,109	668'9
Carma	220	482	1,093	717	1,573	4,784	060'9	8,081	14,050	20,622	
Costain	1,737	1,141	1,472	1,555	2,078	2,519	4,255	2,909	6,331	161'8	11,864
Consolidated	70	471	74	832	1,039	2,888	6,701	10,002	4,747	6,546	
Sifton	413	519	852	695	686	1,550	2,478	3,384	4,777	2,500	
Headway	ŧ	i	651	972	1,299	1,772	2,824	2,946	2,271	3,015	
Monarch	941	1,355	1,565	1,655	1,389	2,044	3,351	4,706	5,310	4,604	
Melcor	300	400	619	449	1,123	1,604	2,727	2,254	966'9	8,317	
15 Company Total	20,343	32,185	43,335	39,872	60,203	600,06	148,543	184,450	236,089	275,491	
Cadillac Fairview & Genstar	10,814	18,010	25,231	22,782	30,617	45,757	73,362	97,268	118,785	134,369	
13 Company Total	9,529	14,175	18,104	17,090	29,586	44,252	75,181	87,182	117,304	141,122	
		80.	SOURCE: T	Task Force	1	ch Studi	es Volum	Research Studies Volume, Chapter	er 6		



AVERAGE ASSETS AT YEAR END (\$'000)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
4000	205.681	261.020	282,260	334,049	385,081	448,661	554,013	999,559	968,726	
Cadillac Fairview	372,890	450,769	505,298	590,455	702,212	773,513	852,031	983,166	1,157,200	
Campan	82,023	98,623	191,723	284,778	304,538	323,148	378,561	452,143	513,804	
N S S S S S S S S S S S S S S S S S S S	9,451	15,270	23,759	38,560	56,589	77,273	114,221	162,962	276,233	424,060
2	44.758	56,768	73,094	86,693	107,872	135,903	156,804	230,718	320,279	
Daon	4,800	9,471	19,166	30,603	43,727	68,513	135,034	197,303	240,026	371,234
McLauchlin	8.518	31,269	58,063	75,737	97,231	138,644	198,218	241,579	249,887	
Markhorough	47,470	54,827	64,314	72,664	78,201	95,907	122,426	137,990	164,243	195,760
Caras	7,146	9,797	10,825	13,654	19,740	34,056	54,708	84,124	115,398	
Costain	10,112	14,429		23,811	30,782	55,664	77,006	86,198	101,881	129,511
Consolidated	20,729	20,170		28,191	36,670	53,402	78,565	96,169	104,988	
Sifton	8,543	13,274		24,564	34,671	45,997	65,677	88,310	97,177	•
Headway	7,000	9,861	13,557	18,107	29,405	50,005	67,097	77,036	88,150	
Monarch	18,364	19,841	22,470	25,307	34,416	48,395	59,937	63,975	65,017	
Melcor	4,000	5,799	6,863	9,100	13,956	24,936	35,520	42,469	54,477	
15 Cempany Total	351,485 1,071,1	1,071,188	1,331,648	1,656,273	1,975,092	2,374,018	2,950,818	3,599,808	4,517,486	
Cadillac Fairview	578,571	711,789	787,558	924,504	1,087,293	1,222,174	1,406,044	1,638,832	2,125,926	
1% Company Total	272.914	359,399	544,090	731,769	887,799	1,151,844	1,544,774	1,960,976	2,391,560	

Source: Task Force Research Studies Volume, Chapter 6.



Total
Average
% of
200
Profits
re-Tax

Assets

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Genstar	4.2	0.9	4.2	6.0	7.4	10.7	12.4	12.9	10.6	
Cadillac Fairview	1.9	2.1	2.3	1.8	2.4	3,3	3,3	3.5	2.7	
Campeau	2.6	4.3	2.9	2.9	2.6	3.2	3.0	3.0	1.6	
Nu-West	18.0	13.4	7.4	4.4	3.7	12.5	10.8	13.1	7.7	6.1
Bramalea	7.7	ı	ı	1	3.4	5.2	4.7	3.1	5.5	
Daon	13.5	16.7	7.3	1.8	4.2	5.0	4.9	1.9	6.4	5.8
McLaughlin	11.7	4.0	0.8	6.6	7.6	4.8	2.4	4.0	3,3	
Markborough	1.8	4.8	2.2	1.5	2.6	12.9	6.1	3.7	11.0	3.5
Carma	6.7	11.2	9.9	11.5	24.2	17.9	14.8	16.7	17.9	
Costain	11.3	10.2	7.7	8.7	8.2	7.6	7.7	7.3	8.0	9.2
Consolidated	2,3	0.3	3.8	3.9	7.9	12.5	12.7	5.5	6.2	
Sifton	6.1	6.4	3,8	4.0	4.5	5.4	5.1	5.4	3.1	
Headway	i	9.9	7.2	7.2	0.9	5.6	4.4	2.9	3.4	
Monarch	7.4	7.9	7.4	5.5	5.9	6.9	7.9	8.3	7.1	
Melcor	1.0	10.7	6.5	12.3	11.4	10.9	6.3	16.5	15.3	
15 Company Total	ထ က	4.1	3.0	3.6	4.6	6.3	9.9	9.9	6.1	
Cadillac Fairview and Genstar	<del>പ</del> ന		2.9	e	4.2	0.9	6.9	7.3	6.3	
13 Company Total	5.2	5.0	3.1	4.0	5.1	6.5	5.6	0.9	5.9	
	SOURCE:		Task Force	e Research	ch Studies	es Volume,	0			
		0	hapter 6	9						



Several brief comments on these figures should be made. The percentage profit figures are distorted due to the difference between market and book value of assets. On the one hand, the low book values used in the calculations here create an upward bias in profit rates. On the other hand, the profit figures do not reflect unrealized profits that equal the difference between market and book value of assets.

Table 9.6 gives the return on equity for the 15 companies. It is clear that these returns are substantially higher than returns on total assets given in the preceding table. This is the simple result of two factors. First, most of these companies are highly leveraged. The average figure in 1976 was equity equal to only 14% of total assets. This is down from a high of 24% in 1969. Second, the total return to capital or assets has been higher than debt servicing charges during this time period.

C. The Inventory Replacement Issue and the Financing of Raw Land The land development industry has frequently argued that high profits from completed developments are "necessary" in order to finance new raw land purchases to replenish their inventories. This message came through repeatedly in the Peat, Marwick report to the Task Force. The basic idea seems to be that while the "boom" years brought record revenues and profits, it also brought record prices for raw land and thus most of the profits had to be reinvested simply to stay in business.

The Task Force does not support this argument. The reason we reject it is that it appears to confuse cause and effect. Basically, raw land prices are high because developers are willing to bid high in expectations of future profits. We do not believe that developers would be willing to bid high if they did not expect to still make a profit at those high prices. Thus, high prices for raw land are caused by high levels of past profits and the corresponding expectations of future profits. past profits and expectations of future profits were lower, competitive bids would be lower and hence raw land prices would be lower. Thus the argument that profits have to be high in order to afford high raw land prices is backwards. We would argue that raw land prices are high precisely because expected future residential land values are high.



Pre-Tax Profits As A % of Average Shareholders Equity

	1968	1969	1970	1971	1972	1973	1974	1975	1976
Genstar	13.2	16.4	10.5	16.3	21.7	30.7	36.4	36.3	35.5
Cadillac	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	24.7	26.5	21.4
Campeau	22.2	24.6	12.4	12.5	14.2	20.4	21.6	21.4	14.5
Nu-West	108.6	51.0	26.9	22.1	21.9	52.8	62.7	70.5	48.8
Bramalea	24.0	1			16.6	27.5	26.3	26.2	45.5
Daon	176.0	104.7	49.7	44.3	34.7	45.3	62.2	87.3	68.5
McLaughlin	66.7	33.0	8.0	87.7	65.0	30.0	17.3	25.5	30.2
Markborough	4.6	13.4	7.0	5.1	0.6	45.4	23.0	24.6	42.4
Carma	38.2	66.2	34.1	60.1	9.68	64.9	63.2.	74.0	73.2
Costain	41.0	40.7	33.6	40.1	41.9	58.3	63.5	53.6	54.2
Consolidated	21.2	3.3	40.0	43.9	86.0	83.4	70.7	27.8	30.1
Sifton .	58.1	39.5	19.7	24.4	33.0	46.6	48.6	36.5	52.6
Headway	1	57.0	42.0	35.0	38.0	42.1	33.0	22.2	26.2
Monarch	23.0	25.0	24.6	18.4	24.0	31.5	35.2	33.8	25.3
Melcor	14.8	21.3	14.3	32.0	67.2	45.0	37.0	85.0	62.0
15 Company Total	22.0	24.0	17.1	21.5	30.1	41.7	33.7	36.6	35.5
Cadillac and Genstar		*					32.0	32.8	30.8
13 Company Total	22.5	21.4	13.7	17.8	26.4	37.7	36.0	41.8	41.8
					and particular community of pa				

SOURCE: Task Force Research Studies Volume, Chapter 6.



Spokesmen for real estate developers describe their industry as "more the victims than the cause of high land prices".(1) They, and many others unconnected with the industry, believe over-regulation of the residential land development process by governments has been the fundamental cause of high and rising land prices, which in turn lead to high and rising home or apartment prices. This view was forcefully presented to the Government of Ontario over five years ago,(2) and has come to be voiced with increasing emphasis by the industry, particularly in reaction to accusations that land prices have been driven up by conspiracy or monopoly among land developers.

#### A. Regulation and Land Values

The argument that excessive government regulation is the cause of high land prices is difficult to appraise, not because the facts are particularly ambiguous, but because the appropriate interpretation to place on the facts is complex. Without a doubt, government regulations that reduce the amount (or the building density) of developed residential land lead to higher-than-otherwise prices for land that does get approved for development. Land that does not get through the regulatory sieve is lower in price than it would otherwise be. Examples abound of this extra amount, an "approvals increment", that the market adds to the price of land approved-for-development, or to the price of land for which additional building density has been permitted.

In one study, conducted for the Task Force and reported on in our forthcoming Research Studies Volume, Chapter 10, the effect on property values of a rezoning in Vancouver that permitted mediumdensity apartment development over part of a low-density residential neighbourhood was examined. This land, in the Kerrisdale area of southwest Vancouver, was rezoned in July, 1961. Lots that were rezoned subsequently sold for roughly one-third more (the actual increase varied with the size of the lot, among other things) than they had

(1) J. Richard Shiff, "President's Report", Report of the Canadian Institute of Public Real Estate Companies, 1977, p. 4. In a recent speech, Mr. Shiff bluntly suggested; "The real estate development industry, especially in the east, is enmeshed in an Alice-in-Wonderland maze of red tape. The inevitable result is a 50% addition to the cost of a housing lot ...," Address to a CIPREC luncheon, Vancouver, November 17, 1977.

(2) Residential Land Development in Ontario, prepared for the Urban Development Institute of Ontario by A. Derkowski, November, 1972.



before the rezoning. During the same period of time, lots nearby that had not been rezoned, and other lots in a "control group", actually declined in market price.(1)

The large "approvals increment" accruing in recent years to land around Winnipeg has been calculated by Professor R. C. Bellan in his recent Winnipeg land-price report.(2) Some of his figures are reproduced in Table 10.1, which shows in the righthand column the difference between the market value of serviced land per acre, for each of several years, and the cost (including the foregone agricultural value of the land) of developing the land.

If land-development approvals were automatic and instantaneous, and if the development industry was sufficiently competitive, differences of this sort, between the selling price of newly serviced land and the cost to developers of providing the land, could not persist. If market value were to rise above production costs temporarily, the excess profit to be made by producing and selling serviced land would induce developers to bring more serviced land into the market, thereby bringing down the selling price until price and costs again coincided. Since, as we argue elsewhere, lack of industry competitiveness or openness does not seem to be a problem, government regulation must, in some ultimate way, be the cause of newly serviced land prices that exceed the market cost of producing such serviced land.

This does not imply that in the absence of restrictive government regulations, residential land throughout the urban area would have a market price equal to the agricultural value of the land plus servicing costs. Each land site is unique and will have a market value that depends on a number

<sup>(1)</sup> In his Ph.D. thesis, Stuart B. Proudfoot calculated that the market value of land in two Toronto residential areas rezoned to permit high-rise apartments rose by about 70 percent in one case and 150 percent in the other, as a result of the rezoning. See <a href="High-Rise">High-Rise</a> and Neighbourhood Change: The Politics of Development in Toronto. (Ph.D. Thesis, University of Michigan, 1977.)

<sup>(2)</sup> Ruben C. Bellan: Report and Recommendations of the Winnipeg Land Prices Inquiry Condaission.

(Manitoba Queen's Printer, July 18, 1977), p.47.



Land-Value Gains to Serviced Residential Land in Winnipeg, 1972-76

(1) Year	(2) Value of Serviced Land per Acre	(3) Value as Farm Land per Acre	(4) Servicing and Other Costs per Acre	(5) Gain in Value per Acre (2) - (3)-(4)
1972	\$ 23,800	\$ 150	\$ 21,100	\$ 2,550
1973	29,200	200	21,100	7,900
1974	45,500	300	26,700	18,500
1975	59,900	400	37,000	22,500
1976	74,000	500	39,500	34,000

SOURCE: Ruben C. Bellan: Report and Recommendations of the Winnipeg Land Prices Inquiry Commission.

(Manitcha Queen's Printer, July 18, 1977), p. 47.

of factors, including its accessibility within the urban area and the general quality of its immediate environment. Some sites will command premium prices because they are better located and in other ways more popular than other sites. However, if development approvals were unrestricted, we would expect the market value of all residential land, including land to which locational premiums are attached, to be lower than it would otherwise be. (1)

#### B. The Planning Issue

To accept that government planning regulations tend to raise the price of residential land is not to judge whether their impact is good or bad. residential subdivision and building approvals process is not simply the purposeless exercise of bureaucratic control. The apparent formalism of the approvals process tends to obscure the overall municipal and regional planning framework within which it is embedded. The fundamental question is not why subdivision approvals sometimes take three or four, or more, years to complete, but why we should regulate residential land development at all. By and large, there is plenty of land to build on. For example, Professor R. A. Muller notes in his recent Ontario Economic Council study on new housing in the Metropolitan Toronto area(2) that within the Toronto Census Metropolitan Area alone, there are almost 700,000 acres of vacant land. This is about four-and-one-half times the total 240 square miles of Metropolitan Toronto and could theoretically accommodate another nine million people, if Metro Toronto's land-use pattern and residential densities were to be reproduced over the whole of the Census Metropolitan Area. What would happen if the development of this land were completely unregulated?

<sup>(1)</sup> There are two basic reasons for expecting land values to decline if government regulation were suddenly abolished. The first is that land supply would undoubtedly increase, which would lead directly to lower prices all around. The second is that land development without regulation may well be less efficient, with the result that urban property taxes may rise (to pay for expensive servicing of the inefficient development) or the environment may deteriorate, both of which would reduce the demand and price of land. These matters are discussed in greater detail in Chapter 3 of our forthcoming Research Studies Volume.

<sup>(2)</sup> Op. cit. p. 62

Government land-use planning is based, in effect, on the premise that an unregulated private market would lead to high public costs and environmental damage. In other words, development costs perceived by the private sector do not correspond to the real social costs of development. "Leapfrog" development patterns, untreated sewage, expensive transportation systems and various other harmful environmental effects all involve costs that are widespread and not borne completely by the developers or the ultimate users of newly developed land. Private development would be slower and more orderly if the full, social costs of land development were taken into account. Since these costs are not taken into account by the private sector, government regulation is needed to encourage a pattern of development that is efficient, and that would indeed emerge if private developers or ultimate users had to meet the full costs of development.(1) In an ideal planning system, the "approvals increment" that we observe would simply be a measure of the difference between full costs and private costs; it serves to bring the final price of land up to its full scarcity value.

There are obviously many slips between this idealized planning concept and planning practice. To attempt an evaluation of the actual application of these planning principles would go beyond our terms of reference, and take more resources than we have available. Ultimately, we must content ourselves with specific comments on some of the more obvious problems associated with government land-use planning. The point to be emphasized, however, is that the approvals process per se is simply an administrative way of getting a handle on the very complex elements involved in regional and municipal planning; it provides a formal framework within which a host of issues, including environmental and social concerns, may be at least

<sup>(1)</sup> Robert Cournoyer, Research Director in the Quebec Ministry of Municipal Affairs, made a similar point in replying to the view that low serviced land costs in Montreal were a desirable consequence of a virtually unregulated development process. He noted that "In the absence of a coherent planning process, (provincial housing unit grants) cost two, three or five times what (they) should ... In the absence of land development controls, cost to the individual is lower, but the collective cost, including the cost that the province has to assume, may be as high (as Toronto), or even higher; "Canadian Council on Social Development, Urban Land Symposia Proceedings (Ottawa, 1977), pp.120-1.



discussed, even if not always dealt with well or wisely.(1)

C. Length of the Approvals

Process Versus
Restrictiveness

Whether for better or for worse, planning restrictions serve to reduce the amount of residential land that is developed over any given period of time. This outcome seems unambiguous, and it has the unambiguous result of increasing the market value of land and of housing. Frequently, however, the focus of criticism of the planning process is not on this fundamental restrictiveness but rather on the length of time that it takes to get planning approval for development. Although the concepts of length and restrictiveness are related - complete restriction of development in some region could be equated with an indefinitely long approval - a purely lengthy approvals process would have some definite length of time between an application for subdivision or by-law amendment and its approval, a length of time determined by administrative needs. Whatever private applications were made would be approved within the normal time requirements of the administrative process. Restrictiveness flows from the exigencies of planning, and relates to tions on the areas appropriate for development, and to the appropriate timing of development; the length, per se, of the approvals process is a matter of administration, not planning.

In our view, the length of the approvals process, as opposed to its restrictiveness, has very little influence on the price of housing, although, as we suggest below, it may have some short-run effect on land price. In the final analysis, whether the approvals process takes two years or three years is not going to alter very much the real cost of producing serviced residential land, and it is not, therefore, going to affect significantly the supply of developed land or the price of housing.

<sup>(1)</sup> A classic example of the difficulty of considering regional plans in the abstract, i.e., unrelated to specific infrastructural schemes or development proposals, is provided by Ontario's Toronto-Centred Region Plan. Although this plan sought in general to constrain development north of Toronto, a detailed consideration of sewage-disposal needs of the area led to the development of a major trunk sewer north and east of Metro Toronto that will be able to service efficiently a much larger population to the north than TCR initially envisaged.



A longer approvals process will, of course, add somewhat to the cost of developing land. A longer process may add to the uncertainty over the final market price of the serviced land, and the average return to capital in the development industry may rise marginally as a consequence. There would be as well additional carrying costs on the land. But these additional costs as a proportion of final cost are small even for increases of a year or more in the length taken in approving private development applications, and the industry should be able to adjust, with little difficulty, to any change in the average time a typical application takes to get approved. It cannot adjust, however, to a restrictive process that denies or excessively delays some approvals. This, of course, is precisely what planned development entails.

# D. Approvals Process in the Short Run

Although the length of the approvals process is not likely to have much effect on the long-run supply of serviced residential land or on the price of dwelling units, it may, over short periods of time, significantly influence the price of approved building lots. Influence of this sort may be observed in the behaviour of lot prices during the rapid dwelling-unit price inflation between 1972 and 1975, as the data in Table 10.2 help show.

It will be recalled from our earlier discussions in this report that over short periods, the price of dwelling units is determined very largely by the supply of and demand for existing units, and that this price is of overwhelming importance in establishing the price of vacant land. In the period between 1972 and 1975, residential properties were being revalued upwards in the market, as buyers became willing to pay much more for houses and building lots, and sellers were willing to sell only for higher prices. As we demonstrated in Chapter 3, lot prices in a period such as this with house-price increases outpacing servicing and building costs, would normally be expected to rise proportionately faster than house prices.

The data for the cities shown in Table 10.2 basically support this expectation. By 1975, the index for lot prices averaged over 20 Census Metropolitan Areas was well ahead of the index for MLS house prices (where, for both indexes, 1971 prices are set equal to 100); and it was ahead as well for most of the cities shown separately in the table.

However, if the figures in Table 10.2 are looked at closely, it will be noticed that for all of the cities shown except Winnipeg, the index for lot prices is behind the MLS index for at least one of

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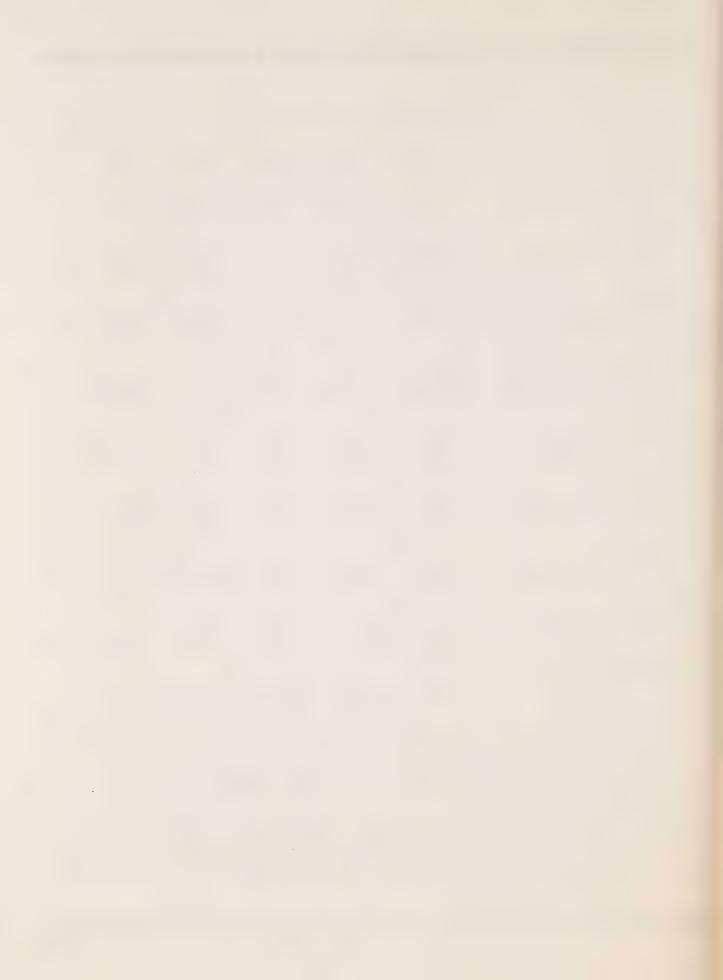
Indexes of House and Lot Prices, Selected Cities, 1971-1975

Halifax	1971	1972	1973	1974	1975
MLS Transactions Fully Serviced Lots	100.0	104.6	111.2 85.3	130.3 96.5	151.4 127.9
Montreal					
MLS Transactions Fully Serviced Lots	100.0	105.6 78.9	111.4 71.5	140.8	149.7 116.9
Toronto					
MLS Transactions Fully Serviced Lots	100.0	107.1 99.7	138.6 120.1	176.4 192.0	182.8
Winnipeg					
MLS Transactions Fully Serviced Lots	100.0	106.1 112.3	116.9 139.2	149.7 224.0	181.6 286.2
Regina					
MLS Transactions Fully Serviced Lots	100.0	103.9	122.5 116.4	160.0 129.5	206.9 187.6
Calgary					
MLS Transactions Fully Serviced Lots	100.0	107.3 112.1	132.2 131.6	169.7 167.7	217.6
Edmonton					
MLS Transactions Fully Serviced Lots	100.0	104.2 102.5	121.2	147.8 150.1	187.0 205.0
Vancouver					
MLS Transactions Fully Serviced Lots	100.0	118.9	156.8 134.3	218.6	243.5 247.6
Twenty-CMA Average*					
MLS Transactions Fully Serviced Lots	100.0	108.8 109.5	126.2	158.0 168.9	173.7 206.2

<sup>\*</sup> These are unweighted averages of the indexes of the following Census Metropolitan Areas: Vancouver, Victoria, Calgary, Edmonton, Regina, Saskatoon, Winnipeg, Toronto, Hamilton, Ottawa, London, Kitchener, Windsor, St. Catharines, Sudbury, Thunder Bay, Montreal, Quebec, City, Halifax and Saint John.

SOURCES: 1. "MLS Transactions"; original data from The Canadian Real Estate Association. Multiple Listing Service Annual Report 1976.

2. "Fully Serviced Lots"; original data from Central Mortgage and Housing Corporation. (These indexes refer to the average cost per frontage foot of fully paid, fully serviced lots for new housing financed under the National Housing Act).



the years after 1971. For the twenty-CMA average, the lot-price index and the MLS index were almost the same for 1972 and 1973; but by 1974 and 1975, the lot-price index had moved strongly ahead. There is, in short, strong evidence of a lag of lot prices behind house prices in many Canadian cities during the post-1971 price boom, especially in the larger cities.

From our discussions with developers and officials in various cities, it appears as if this lag in the escalation of lot prices was the result of either the existence of a good stock of already approved residential land at the beginning of the rapid inflationary period, or the readiness of officials to speed up the approvals process, at least in the short run. As stocks were depleted, or as developers became concerned about the long-run availability of new lots, the price of approved land rose and increasingly came to reflect the final price of dwellings. The initial availability of stocks, or quick approval of new applications, served to buffer the lot-price increase. Owners of approved lots gradually came to raise their prices, not at the first sign of house-price increases but only as their stocks became depleted, or as they became concerned about replenishing them.

The changing lot prices during this period served only to determine who benefited from the rising house prices; it did not independently cause the house-price increase. Before lot prices were adjusted upwards, builders and new-home buyers gained by buying at low prices. As lot prices rose independent builders had their profits reduced while the larger land holders and owners of raw land benefited from the real estate boom.

The Contrasting Examples of Winnipeg and Regina

The contrast between Winnipeg and Regina helps illustrate the moderating effect on lot prices of larger supplies of approved land. In Winnipeg, as many commentators have noted, the creation in 1972 of a single large "unicity" from the previously federated municipalities brought the subdivision approvals process in that year to a virtual halt. This, in conjunction with higher servicing standards and a heightened concern with sprawling residential development, tightened up the supply of building lots right at the beginning of the inflationary period, thus ensuring that lot-price increases would immediately reflect the greater demand for real property. As shown in Table 10.2 the Winnipeg lot-price index moved above the houseprice indexes in 1972 and remained above for the whole of the period.



In Regina, by contrast, city officials responded quickly to the increased demand for building lots by approving more land for development.

This official attempt to maintain an adequate supply of approved lots had the effect of keeping the rate of price increase for those lots below the rate of house-price increases through to 1975.

The experience of many other cities fell between these examples of Winnipeg and Regina. Approval delays in the mid-seventies in both Calgary and Edmonton resulted in more pressure being put on the existing stock of approved land. Building-lot price increases followed house-price increases with only a moderage lag. In Toronto, house prices started a dramatic upward climb in 1973; lot prices followed in 1974, a year in which, as Table 10.3 shows, the number of final approvals given to subdivision applications across Ontario was especially low, possibly because three new regional governments were initiated in that year. Within the Toronto Census Metropolitan Area, the number of subdivision lots registered in 1974 was only four-fifths of the number registered in 1973, and first-half data suggest a further reduction in 1975.(1)

### F. The Importance of Planning Restrictions

If all municipalities had been able to respond to the rising demand for houses and building lots by quickly expanding the number of lots approved for development, as did Regina, then widespread increases in lot prices would undoubtedly have been delayed, as it was in Regina. It is in this sense that, over short periods, shortening or lengthening the time taken to process subdivision applications affects lot prices. But over longer periods, it is only changes in the restrictiveness of the subdivision process, relative to housing demand, that will affect lot prices. To lower the

<sup>(1)</sup> R. A. Muller: The Market for New Housing in the Metropolitan Toronto Area. Ontario Economic Council, Spring, 1978, Chapter 3, Table 13.



Subdivision Applications and Approvals in Ontario, 1960-77

	New	Final	Ratio of Approvals to Applications				
Year	Applications	Approvals	No Lag	1-year lag	2-year lag		
1976	787 ·	521	66.2%	53.3	42.6%		
1975	978	596	60.9	48.7	47.4		
1974	1223	411	33.6	32.7	39.1		
1973	1258	662	52.6	63.0	81.0		
1972	1050	478	45.5	58.5	53.0		
1971	817	541	66.2	60.0	54.8		
1970	902	444	49.2	44.9	52.4		
1969	988	560	56.7	66.1	66.1		
1968	847	509	60.1	64.8	64.8		
1967	785	456	58.1	60.9	70.8		
1966	749	434	57.9	67.4	73.1		
1965	644	435	67.5	73.2	80.9		
1964	594	488	82.1	90.7	91.9		
1963	538	484	90.0	91.1	72.1		
1962	531	570	107.3	84.9	66.4		
1961	671	633	94.3	73.7			
1960	859	815	94.9				

Note: The ratio of approvals to applications was calculated in three ways: 1) with no lag, in which approvals in each year were compared to applications in the same year; 2) with a 1-year lag, in which approvals in each year were compared to applications during the previous year; and 3) with a 2-year lag, in which approvals in each year were compared to applications two years earlier.

SOURCE: Task Force Research Studies Volume, Chapter 10.



price of subdivision land permanently, in the face of higher demand, it is necessary permanently to increase the rate at which lots are approved, to become less restrictive in other words. However, there has emerged during the last six or seven years a concern over environmental issues, settlement patterns and servicing standards that may give rise in the future to increasingly restrictive land regulations and development approvals. Some of these broad planning elements underlay the lotsupply shortage of a few years ago.

For example, Winnipeg Council in 1973, after the creation of a unified City of Winnipeg, formulated policy guidelines stipulating that urban expansion would be allowed only on land contiguous with the already built-up areas.(1) No "leapfrogging" over vacant land is permitted by this policy. A somewhat similar policy of sequential development was recently announced in Calgary, along with proposals that would limit residential growth to designated transportation corridors.

In a number of cities, provincial plans for a surrounding utility or "green belt" froze subdivision approvals in those belts and, at least in Calgary and Edmonton, led to considerable uncertainty among land holders about the extent to which future development beyond these belts would be permitted. This uncertainty has helped fuel the lot-price increase in recent years, since sellers of approved lots have less confidence that new, developable land will be readily available.

Along with the widespread applications to regional planning of concepts such as sequential or contiguous development and green-belt barriers, higher urban servicing standards are frequently being insisted upon. We discuss elsewhere in this Report the problems of excessively high or mistaken standards. Here we are referring to standards that might be fully justified by any reasonable criteria. Ontario has held up residential development north of Toronto until adequate sewage mains into Lake Ontario can be made available; the expansion of upstream sewage treatment was halted in the midsixties. Calgary has frozen the development of over three thousand acres to the south because of inadequate transportation servicing. These, and similar examples elsewhere, all involve legitimate concerns that clearly have to be handled in some part of the regional planning process. At this

<sup>(1)</sup> See the Report and Recommendations of the Winnipeg Land Prices Inquiry Commission, p. 31.



stage of their application, they and other "softer"
environmental and social concerns, all tend to
restrict the rate of subdivision approvals.(1)

The restrictive force of these various planning matters has yet to be fully realized. Some hint of this restrictiveness emerges from the data of Table 10.3 which seems to show a general fall over time in the ratio of final approvals to new subdivision applications across Ontario, whether the ratio is measured with or without the assumption of an approvals lag. But these Ontario data are difficult to interpret (partly because they relate not to building lots but to whole subdivision applications) and suggest only inadequately the emerging problem.

### G. Some Conclusions

Central to this problem is the simple fact that governments can decide which land is forbidden to development, and development will not occur there; but they cannot ensure that development will take place on land that is open for development. As a result, there may be no immediate economic interest by private or public sector land owners in developing approval land, or in applying for subdivision approval in acceptable, "contiguous" areas. The government may establish broad development concepts, provide mainline sewage and water facilities, and ensure that the area has good accessibility, but the economic reality decides development timing. (2)

The major land-development problem for provinces and municipalities in coming years may well be that private and public sector developers with their diverse expectations and incentives, will not, or financially cannot develop, urban areas in the nice sequential way, over time and over space, that

<sup>(1)</sup> The increasing complexity in Ontario that these concerns have added to the approvals process is discussed in Chapter 12 of the Report of the Planning Act Review Committee. (Toronto, April, 1977)

<sup>(2)</sup> The way in which the private market determines development timing is described by Professor D. M. Nowlan in his article on "The Land Market: How it Works", in Public Property? (The Fraser Institute, 1977.) He points out in this article, that even in the highly developed commercial core of Toronto, only a little over ten percent of all commercial properties were developed in 1976 up to their maximum allowable floor area, and over one-half the properties had less than twenty percent of the building area that they were legally permitted to have.



planners think is appropriate. This could lead to a paradox of land shortages in the midst of plenty, and to an increasingly restrictive approvals process, in spite of the best government intentions. Both the appropriateness of the planning goals, and the possibility of developing new policy instruments to encourage desired development - fiscal instruments come immediately to mind - should be high on our land-issue agenda.



## A. Fiscal Impact of New Development

Restrictions that reduce the supply of building lots below "free market" levels arise from a wide variety of sources. A new and apparently increasingly common type of supply restriction will form the subject of the present chapter. This restriction will be referred to as "municipal resistance to development", defined as a negative stance toward new residential development by municipal corporations on the grounds that new development is fiscally unattractive. A term widely used in this regard is "fiscal impact" which may be defined as the difference between municipal revenues and costs caused by residential growth. If increased municipal revenues exceed costs the fiscal impact is said to be positive. Conversely, the fiscal impact is said to be negative if increased municipal costs exceed revenues.

The term "municipal resistance" is fairly new and not surprisingly it is currently used in a number of different ways. Our use of the term to refer only to resistance based on negative fiscal impact is based on section C(iv) of our terms of reference. The other principal way the term has been used is to refer to resistance by ratepayers groups on various grounds such as "environmental preservation". Based on section C(v) of our terms of reference, we shall refer to this quite separate type of resistance to development as "citizen resistance" (also arbitrarily) and consider it in detail in the next chapter.

Municipal corporations which conclude that new residential development will create a negative fiscal impact on their communities, have several alternative courses of action. (A) Municipalities may accept these fiscal deficits as a fact of life and not worry about their impact on taxes paid by existing residents. (B) Municipalities may accept residential growth but require it to pay its own way. Residential land developers may be required to make special lump-sum payments approximating the present value of the future deficits associated with the developments. (C) Municipalities may limit the amount of residential development they will allow. They may slow down the pace of residential development and/or restrict the total amount of residential development permitted within their boundaries. (D) Municipalities may restrict the construction of housing types considered to have the largest deficits. The consensus is that large single-detached houses and small apartments generate smaller deficits than modest cost family accommodations such as town-houses.

Municipal resistance, of course, only occurs in the last three cases but we should also note that each



of these last three have different implications for the land market. Neither the supply nor the price of residential land are affected by response (A). Under response (B), the potential supply of residential land is not affected but development costs are now higher. As discussed in a subsequent chapter on taxation, not all of this cost is likely to be passed on in higher serviced lot prices. Some of it is likely to come out of development corporation profits and some is very likely to be absorbed by farmers in terms of lower raw land prices in the long run. Response (C) reduces the supply of serviced residential land and increases its price. Response (D) tends to modify the price structure land for smaller apartment units and larger singledetached houses is more available and cheaper. Land for modest-priced family-type accommodation is less available and more expensive.

Measuring fiscal impact is a difficult matter simply because there exists no general agreement as to how various costs and revenues should be allocated. For example, should operating costs attributed to residential development include or exclude costs of providing services to the non-residential sector? Should some of the costs of existing infrastructure in the municipality be allocated to new development if the infrastructure has excess capacity? The problem is complex and interested readers are referred to the Task Force Research Studies Volume, Chapter 11 for a detailed discussion and a proposed methodology.

Nine existing studies of the fiscal impact of residential and non-residential development in Canada were examined. Four of these studies were done in Ontario, one each in Quebec and Alberta, and two in British Columbia. One United States study is also shown for comparison. The results of these studies are shown in the accompanying Table 11.1 and detailed explanations of the ratios shown are presented in the appendix to this chapter. Ratios in excess of 1 in Table 11.1 indicate a positive fiscal impact while ratios less than 1 indicate a negative fiscal impact.

In total, the findings of these studies can be summarized as follows. First, residential development may or may not produce a fiscal deficit for municipalities. However, the majority of studies considered do conclude that residential developments generate more in municipal costs than in revenues. Second, if residential development does generate a fiscal deficit, the size of this deficit ranges widely between municipalities. Thirdly, the fiscal impact of residential development differs



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				ex.	Residential			
Study	Single- Detached	Two- Family	Town- House	Walkup	Apartment Highrise	Un- Specified	All Residential	Commercial and/or Industrial
CANADA City of Laval	0.92							
Town of Burlington	0.68		0.50	0.66	1.19-		08.0	3.74
City of Burlingon #2 #3 #4	0.95 0.95 0.95 0.67	0.00 0.00 0.00 0.00	0.55 0.84 0.67 0.47		0.70 0.99 0.85 0.59			
Town of #1 #2 #3	1.09 0.88 1:02							
** # # # # # # # # # # # # # # # # # #							0.70 0.94 0.95 0.56 0.67 1.03	
#2 #3	0.31- 0.75- 1.02- 0.78- 0.78-	0.10- 0.40- 0.36- 0.74- 0.18-				3.51 0.59 1.58 1.95		



					TE TIOT	(concinded)
Commercial	and/or Industrial			1.39 7.03- 12.58	3.72	
	All Residential					
	Un- Specified		0.71-	0.76- 0.98 1.34- 2.00	0.84	ss.
Apartment	Highrise	14.17				description of these ratios.  are not comparable between studies.  Task Force Research Studies Volume, Chapter 11.
n n	se Walkup		70		0.67	description of these ratios.  are not comparable between  Task Force Research Studi Chapter 11.
X T	Two- Town- Family House		0.70		0	ription o not comp ask Force
	Single- Tw Detached Fam	0.95 0.95 0.95	0.73	0.41- 0.84 1.12- 2.37	0.74	for a des ratios ar URCE:
	Study	City of Calgary #1 #2 #3	Township of Richmond	District of Surrey #1 #2	United States Muller-Dawson	* See Appendix Revenue/cost



according to housing types. Single-detached units and apartments generally have the smallest deficit (or largest surplus). Fourthly, commercial and industrial developments generally yield more in municipal revenues than in costs. This was true in every case shown in Table 11.1: the Town of Burlington study, the District of Surrey studies, and the Muller-Dawson study for the United States.

# B. The Structure of the Property Tax

If we accept these findings, there remains the problem of pinpointing their causes. Since the property tax is the principal revenue source in most municipalities, we might first look at that tax.

It appears from our research that the major reason why residential growth by itself is financially unattractive to municipalities is that the effective property tax levied on residential property is usually much lower than the tax on industrial and commercial property. Effective property tax rates are defined as property taxes as a percentage of the market value of property. Variations in effective tax rates between classes of property can be caused by (A) differences in the assessed/market value ratio and (B) differences in nominal tax rates (usually expressed in terms of mills). If effective tax rates are higher on nonresidential than on residential property it means that residential development is less attractive from a revenue standpoint than if uniform rates were applied. If we add to this the fact that a residential development is less attractive from a cost standpoint than a commercial or industrial development of the same value, it is easy to understand the origins of negative fiscal impact. following figures illustrate the bias in the property tax in two selected areas caused by the underassessment of residential property.

Assessed	l/Mar	ket Va	alue R	latio,	1973	

Type of Property	City of Toronto	Percent	Borough of Scarborough
Residences	8.6		8.8
Commercial	14.9		12.5
Industrial	28.6		16.4



### Assessed/Market Value Ratio, 1975

Type of Property	City of Vancouver		District of Delta
		Percent	
Residential	12.8		18.9
Multi-family	25.4		23.6
Commercial	35.1		3.6
Industrial	38.1		33.3
All Classes	15.9		15.6

Source: Task Force Research Studies Volume, Chapter 11.

It is extremely important to note here that negative fiscal impact from residential properties has little to do with new development per se. The above arguments suggest that existing residential developments may also have or once had a negative fiscal impact on municipalities. Alternatively, it seems to suggest that existing residential rate-payers are currently being subsidized by existing commercial and industrial ratepayers. Municipal corporations, of course, represent existing ratepayers and not potential new residents. Thus there is no incentive to change the overall property tax structure in order to make new residential development pay its way since this would be harmful to existing residents.

# C. Balanced Growth and Expected Fiscal Impact

An important fact that we have ignored up to this point is that for a metropolitan area as a whole, residential growth occurs simultaneously with industrial and commercial growth. Thus if metropolitan areas were composed of a single fiscal unit there might be no issue here at all since the negative fiscal impact of residential growth would he offset by the positive fiscal impact of industrial and commercial growth. But many larger metropolitan areas are fragmented into a number of municipalities. Quite clearly in our view municipalities experiencing only residential growth are going to be much more concerned about its financial impact than municipalities having significant nonresidential growth as well. If municipal boundaries are large enough to encompass an area's employment and housing growth the negative fiscal impact of residential growth should not be too great a problem since it is counterbalanced by the favourable fiscal impact of non-residential growth.



One could expect, therefore, that fiscal impact of residential development is of major concern in areas having a fragmented municipal government structure - where employment growth is centred in some municipalities (typically the central city) and housing growth in others. The closer municipal boundaries are coterminous with an area's economic boundaries (defined here as the census metropolitan area) the less worry there should be about the financial consequences of residential growth.

While current data are not available on employment growth by municipality within census metropolitan areas it is reasonable to assume that much of this growth occurs in the central city. In Calgary, Saskatoon, Regina and Winnipeg all of the residential growth was in the central city - that is the municipal boundaries coincided with the census metropolitan area boundaries. In Thunder Bay, Edmonton and London most of the housing growth was in the central city. Other factors being equal, the municipalities in these seven areas should not be nearly as worried about negative fiscal impact as those in areas at the other end of the spectrum. These latter areas include fringe municipalities around Toronto, Montreal, Quebec City, Ottawa and Vancouver.

A number of other political factors that also help determine fiscal impact should also be noted. The first has been the implementation of regional governments in several parts of Ontario and Quebec. If these regions have higher employment/population ratios than some of the residential communities they contain, regional government may help to relieve the negative fiscal impact on the latter. Second, provincial grants can help offset the negative impact of residential development.

We can now summarize this chapter in the following points. First, negative fiscal impact from new residential development seems to be a genuine problem in municipalities that are largely residential, or where growth is largely residential. The municipalities that best fit this description are the growth municipalities around Montreal, Toronto and Vancouver. Second, the root of the problem lies in a combination both of political fragmentation and of a property tax in virtually all municipalities which undertaxes all residential properties and overtaxes commercial and industrial properties relative to their respective uses of public services. Thus it is not new development per se that causes the problem but rather the structure of the property tax.



### Description of Revenue/ Cost Ratios

The revenue/cost ratios included in Table 11.1 were based on information contained in the following studies. Each of the ratios are briefly described below.

### City of Laval Study

This study which was published in 1974 estimated the financial impact of constructing 25 singledetached houses in the City of Laval, Quebec.

### Town of Burlington Study

This study undertaken in 1966 estimated revenues and costs relating to 24 recent developments in the Town (now City) of Burlington, Ontario. Average revenues and costs are summarized for single-detached, townhouse, walkup apartments, and high-rise apartments of 5-7 and 7 storeys, respectively. In addition revenues and costs of providing services for the entire town in 1966 are split between all residential and farm property and commercial and industrial property.

### City of Burlington Study

This 1977 study examined the financial impact of recent residential growth in the City of Burlington and proposed residential development in the Brant Hills community. While both operating and capital revenues and costs are considered in the study, the ratios in Table 11.1 relate only to operating revenues and costs.

Five different revenue/cost ratios are included in Table 11.1 for each of four housing types: #1 - revenues and costs for recent residential growth for the City, Regional Municipality of Halton and school boards combined; #2 - same as #1 except a pro rata share of taxes from recent commercial and industrial in the City are included; #3 - revenues and costs to the City from proposed residential development; #4 - same as #3 except for Regional Municipality of Halton; and #5 - same as #3 except for school boards.

### Town of Markham Study

This 1976 study estimated the financial impact of a proposed large lower density residential development called Markham East Developments on the Town of Markham, Ontario.

Three revenue/cost ratios are calculated from the study and presented in Table 11.1: #1-revenues and costs from the development for the Town of Markham; #2 - revenues and costs including welfare for the Regional Municipality of York; and #3 - same as #2 except no welfare costs are alloted to the development.

### Town of Oakville Study

This 1974 study estimated the financial impact of two proposed large mixed use developments -- Glen Abbey and River Oaks -- on the Town of Oakville,



Ontario.

Four revenue/cost ratics from this study are included in Table 11.1: #1 - residential revenues and costs from the two developments for the Town of Oakville; #2 - same as #1 except for school boards; #3 - revenues including a pro rata share of taxes from commercial and industrial growth in Oakville alloted to the two developments for the Town of Oakville; and #4 - same as #3 except for school boards.

### City of Oshawa Study

This 1969 study estimated the financial impact of 12 residential areas on the City of Oshawa, Ontario. These were four single-detached housing areas, four two-family housing areas, and four apartment areas.

Three revenue/cost ratios for each housing type are included in Table 11.1: #1 - revenues and costs from the areas for the school boards; #2 - same as #1 except for City of Oshawa; and #3 - same as #1 except impact on school boards and City combined.

### City of Calgary Study

This 1969 study estimated the financial impact of a hypothetical 76-unit single-detached house subdivision and a hypothetical apartment building on the City of Calgary, Alberta.

Three revenue/cost ratios are included in Table Ill: #1 - revenues and costs from the developments for school boards; #2 - same as #1 except for City of Calgary; and #3 - same as #1 except impact on school boards and City combined.

### Township of Richmond Study

This 1971 study estimated the financial impact of six areas on the Township of Richmond, British Columbia. Estimates of revenues and costs are also made for single-detached houses, townhouses and apartments (separate estimates for 1-bedroom, 2-bedroom and 3-bedroom apartments). These estimates which include schools are included in Table 11.1.

### District of Surrey Study

This 1977 study estimated the impact of single-family and multiple housing at various densities and various types of commercial and industrial development on the finances of the District of Surrey, British Columbia.

Cost/revenue ratios for the various types of development are summarized in Table 11.1: #1 is based on revenues and costs for education and #2 relates to the Township of Richmond.

### The Muller-Dawson Study

This 1972 study estimated the impact of a proposed mixed use development on the finances of Albermarle County, Virginia.



# Citizen Resistance

A. Origins and Forms of During the last decade, one of the new elements to enter the development field has been citizen participation in specific project decision-making. Prior to that time, decision-making on development projects tended to be confined to a closed system involving only the developer, municipal staff and local politicians. However, recently ratepayers both as individuals and as organized groups have begun forcefully to assert their viewpoints.

> In accordance with our terms of reference and political realities, we have labelled this type of activity "citizen resistance to development". The purpose of this chapter is to analyze citizen resistance as a factor restricting lot supply. As always, the analysis is confined to the price and supply effects of citizen resistance and does not address broader questions as to whether or not citizen participation has, on balance, been a positive or negative force.

There appears to be a broad range of reasons why citizen groups have chosen to oppose new development. Typically, such resistance involves opposition by residents living directly adjacent to proposed new development. Several examples are in order. A common case is opposition by residential groups when new development is proposed at higher densities than those found in the adjacent residential areas. Existing residents fear increased traffic, overshadowing by large buildings, increased pressure on schools and parks and the like. These are partly feared for their own sake and partly because of the possible erosion to existing property values that might result. In other cases, existing residents have objected to new development in any form. Residents in some of the fringe municipalities around Metropolitan Toronto, for example, have reportedly resisted any new development on the grounds that they desire to preserve their small community way of life. Green areas are to remain green. Environmental motives for resisting development are commonly quoted in citizen briefs.

What is hard to determine is the extent to which these stated motives form the only motives or indeed the most important motives. Powerful economic motives also exist and it is not clear at the present time the extent to which these motives are generally understood. First, by opposing new development existing homeowners can force price increases and hence appreciate the value of their assets. This effect, however, is certainly insignificant for opposition to single developments in large urban areas. Second, by restricting



development and by supporting their municipal councils in levying lot levies for development that is permitted, existing residents may be able to reduce their tax burden. In both cases, citizen resistance results in a wealth transfer from new home buyers to existing homeowners.

Judging motives for citizen resistance in a scientific, non-impressionistic way is impossible. Even effectively documenting its existence is an extremely complicated and time-consuming task. Because of this difficulty, citizen resistance became an area in which the Task Force had to sacrifice comprehensive national coverage in favour of a case study approach. Case studies cannot claim to be representative but they are certainly illustrative of the processes at work. A second advantage of the case study format developed by the Task Force is that it provides a standard methodology that can be used by local policymakers throughout the country in future research.

Selection of case studies required the development of a set of criteria. The initial proposed development had to have been aimed at the middle or lower income market. The disposition of the case had to have been resolved in order to allow estimation of the final costs; cases in which the developer gave up or in which the land was expropriated were similarly excluded since certain costs could not be measured. All cases had to have been completed within the last five years. All cases had to be in proximity to existing developments and contested by nearby residents. Other factors contributing to delay had to have been resolved so that citizen resistance was the only remaining obstruction to the case. Only cases involving new development were examined to avoid issues connected with redevelopment. Finally, and perhaps most importantly, some initial municipal council or staff decision in favour of the initial proposal had to have been made. This provided the Task Force with an objective benchmark against which to estimate the final costs and/or units lost resulting from the changes made as a result of successful citizen resistance to the initially approved proposal.

Given the limited scope of this summary report, a number of strategies are open to us. One would be to present some summary statistics from a number of case studies. This would present some of the diversity we have observed but would lack the depth of a more complete look at a single case study. For this reason, we have opted for the latter approach and will discuss two case studies in order



to show more clearly the complications that can arise and the methodology that the Task Force has devised. Interested readers are referred to the Task Force Research Studies Volume, Chapter 12, on Citizen Resistance.

# B. Case Study I: Bedford Glen, Metropolitan Toronto

The case we will examine here is referred to as the Bedford Glen Project in the Borough of North York in Metropolitan Toronto, consisting of 5.6 acres. The residents most directly affected by the proposed development lived west of the site and are residents of the City of Toronto. They therefore had no direct input into the North York Official Plan which regulated the site. The residents opposed the high density designation that the Official Plan allowed for the site, not the fact that redevelopment would occur on that site.

To understand the nature of this opposition, one must briefly consider the events of a twelve-year period which are set out below. Figure 12.1 summarizes the major events.

- At the request of the North York Mayor, the developer (Cadillac-Fairview) assembles a 5.6 acre parcel of land at the southern boundary of this borough, adjacent to the City of Toronto, with the aim of placing housing on what was then an unsightly, poorly-maintained site.
- North York shifts from the 1948 Official Plan to a series of District Plans.
- 1969 The developer proposes two 20-storey apartment buildings containing 574 units and 19 row houses for the site; to permit this proposal, North York rezones the area to allow 100 units/acre, in accordance with their 1948 Official Plan.
- Ratepayers of the adjacent community, who live in the City of Toronto and therefore have had no direct input into either the Official Plan or the zoning by-law, organize themselves in opposition to the proposed development.
- 1971 The ratepayers force a public hearing by the Ontario Municipal Board (OMB). The rezoning is refused; the developer appeals to Cabinet.
- November, 1973

  Under pressure from the residents, North York down-zones the site from R100 to R1, allowing only eight units/acre instead of the 100 units/acre permitted by the 1969 by-law.

In the same month, Cabinet refers the original zoning by-law back to the OMB for a rehearing.



# BEDFORD GLEN

# CHRONOLOGY OF OFFICIAL PLAN DESIGNATIONS AND ZONING BY-LAWS

Possible Built Form	highrise	highrise		singles & semi-detached	singles & semi-detached		lowrise & townhouses	lowrise & townhouses
Number of Units Permitted /Acre	permits 110 units/acre	R100 - conforms to 1948 Official Plan and permits 100 units/acre	refuses to approve by-law	change to R1 - permits 8 units/acre	R1 - permits 8 units/acre	refuses appeal by developer	permits a rezoning to 37 units/acre	RM6 - permits 37 units/acre
Document or Action	Official Plan	North York By-law	OMB hearing	North York By-law	North York District 3-4 Official Plan	OMB hearing	North York approves necessary Official Plan Amendment	North York By-law
Date	1948	1969	1971	Nov. 1973	June 1974	Dec. 1974	Sept.1976	Nov. 1976



The OMB subsequently refuses to hear the case again because the original R100 zoning which is the subject of the dispute no longer complies with the Official Plan.

- June, 1974

  North York Council adopts the District 3-4 plan, which designates the site Rl. Of course the Bedford Park Ratepayers support this designation. When the plan is forwarded to the Minister of Housing for approval, the developer, as it is entitled to do in Ontario, requires that the Minister refer the lands in question to the OMB for a public hearing.
- December, 1974

  At the OMB hearing the developer appeals the R1 designation, but the Board rules in favour of North York and the Bedford Park Ratepayers Association.
- March-November, 1975

  The developer approaches Mr. Jack Marshall, President of the Ratepayers Association, and offers to work with the residents to produce a design agreeable to both. An architect is hired, and a threeman team produces ten low-rise schemes. The last one is found most acceptable. This scheme is presented to the executive and then to a general meeting of the Association, at both of which it receives a great deal of support.
  - December, 1975 The developer requests that North York rezone the site from Rl to RM6, allowing density to increase to 37 units/acre. The Ratepayers Association strongly support the rezoning, based on the site plans they had helped develop.
    - May, 1976 North York Council approves in principle the zoning by-law amendment.
- September-November, 1976

  North York Council passes both the by-law rezoning the site to RM6 and the required Official Plan amendment.

March, 1977 North York Council passes a by-law correcting minor problems in the November 1976 by-law.

The impact of citizen resistance on the Bedford Glen project falls into three areas: the supply of residential units, the type of units constructed, and the increased cost of the residential units attributable to citizen resistance. The impact of citizen resistance on the supply of residential units is easily identified. As stated earlier, the original proposal called for a total of 593 units of apartments and townhouses. This proposal was endorsed by the North York Council and therefore provides an objective benchmark to compare the subsequent reduction in the number of and change in



the kind of dwelling units. The final project calls for a total of 205 units of apartments and townhouses. The result is a reduction of 65.44% or 388 units. In addition, there is a time factor in which the units were delayed from entering the market place from an estimated completion date of June 1971 for the original project to an estimated completion date of August 1978 for the final project. In the absence of citizen resistance, 593 units would have been supplied to the Toronto market during a period of rapidly rising prices. As it turned out, no units were supplied during this critical period. It is somewhat more difficult to analyse the effects on the type of units provided. While the initial proposal called for high density development the final proposal called for medium density. To the extent that this involved substituting "higher quality" units for "lower quality" units, the effect of the citizen resistance was to create a development directed at a higher income segment of the population.

Similarly, while the original proposal called for rental units the final proposal called for condominium units which constitutes an additional form of change from units serving lower income tenants to units serving higher income tenants.

The impact of citizen resistance on cost is more complicated yet. We must consider what items are attributable and what time period should be used. We have decided that attributable costs should include the following: carrying costs of the land, land cost increases due to density change, redesign costs, consultants' costs relative to the redesign (i.e. engineering costs relative to servicing, etc. but not including costs of working drawings) and other consultants' costs relating to meetings with municipal officials and bodies, meetings with ratepayers and OMB hearings, increased cost of services, increase in construction costs, staff time and overhead required by company staff. The relevant time period in this particular case is fairly easy to determine. Since the original proposal was approved by passing of a by-law on November 28, 1969, we are using this date as our base period. The final project was approved by passing of a bylaw on March 15, 1977. Our time period for calculation of carrying costs shall thus be from November 28, 1969 to March 15, 1977.

The resulting cost increases were huge, something over \$7,000,000. The exact methods used to calculate these costs require a fairly lengthy discussion so interested readers are again referred to the full article in Chapter 12 of the Task Force Research Studies Volume for a complete explanation.



It is sufficient to note here that this large cost increase is not very meaningful by itself and cannot in any sense be used as a measure of the financial impact on the development. One of the basic reasons is that the costs spanned almost a nine year period which was highly inflationary. Thus while there were large differences between construction costs in 1976 and 1968, there were also large differences in the selling prices of the units. Another basic reason is that the final units built were presumably of better quality than the units originally proposed, changing from apples or perhaps grapes, to oranges; thus a quality correction to this \$7,000,000 figure would also lower it significantly.

Case Study II: Kings
Arms, Dartmouth, Nova
Scotia

The second case study we shall present is the Kings Arms project from Dartmouth, Nova Scotia. The developer was the Armour Group which proposed 125 apartments in six low-rise buildings. Citizen opposition to the Kings Arms project centered on the issues of traffic and densities and delayed the approval for a relatively short time. Interestingly, the city planning staff continued to support the original proposal throughout the controversy.

The site under consideration is a corner property of 7.5 acres, most of which was zoned R4, allowing 40 units per acre. An application was made to rezone five adjacent lots from R1, allowing five units per acre, to R4. The request was made in order to consolidate the properties and to enable the developer to place a driveway across part of the then R1 land into his development. Nearby citizens objected to allowing such egress onto Glen Manor Drive; in addition, they wanted to retain an R1 buffer zone between them and the proposed development.

In order to fully understand the chronology of events, one must first know that the Armour Group purchased the lots from MacCulloch & Company Limited, a major landholder and developer in this part of Dartmouth. This company was also the developer of a nearby shopping centre, which some citizens claimed had generated large amounts of through traffic onto their residential streets. Their proposed solution to this traffic problem was the construction of an interchange west of the centre, which the province had so far resisted. The citizens, however, believe that they were promised that there would not be any increase in traffic following the opening of the shopping centre; they therefore place the blame for their traffic problems on MacCulloch & Company, the original landholder. It is within this context



that the rezoning application was made.

Following is the chronology of events. Figure 12.2 and 12.3 will assist the reader in following the site-specific details of the dispute.

- The Armour Group purchases the land. Part of the agreement stipulated that MacCulloch & Company will be responsible for the necessary rezoning.

  MacCulloch applies for the rezoning, from Rl to R4 which, among other things, would permit two entrances to the site, one from Mic Mac Boulevard and one from Glen Manor Drive.
  - March, 1976 Planning staff recommends that the rezoning be approved.
- June 22, 1976

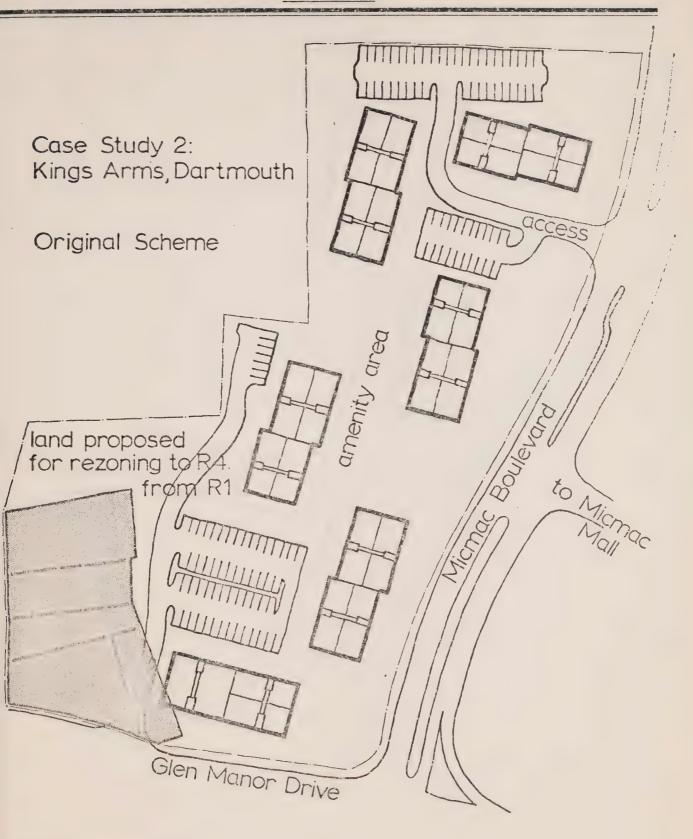
  At the request of the city, a voluntary public meeting is held. Over 100 residents from the adjacent area are in attendance to express their concerns about the traffic problem and R4 rezoning adjacent to their residential area. The same group opposed the traffic problem created by Mic Mac Mall.
- June 29, 1976

  Council holds a public meeting for the rezoning application. Because of opposition, it is decided to defer the matter for another week to see if the developers (both the Armour Group and MacCulloch & Company), the citizens and the planning department can work out a satisfactory agreement.
  - July 5, 1976

    A meeting is held between six people representing the residents, the developer, the original landholder, CMHC (who were involved because it was a limited dividend project) and city staff from the planning and traffic authority departments. The developer agrees to reserve land for an Rl buffer, and to lend his support to the study and alleviation of the overall traffic problem in the area. However, he does not concede removal of the contested access; he argues that to do so would mean a roadway must traverse the internal space of the development, thus destroying the amenity area. CMHC and planning staff endorse this point of view.
  - July 6, 1976

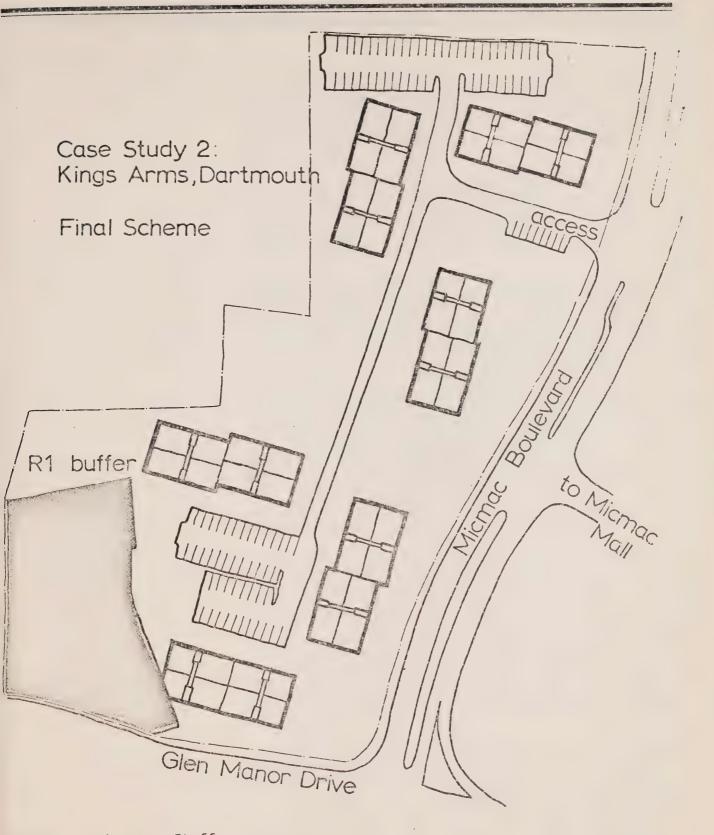
    Council agrees to defer the matter another two weeks to again try to effect a compromise with respect to the contested access drive and its effect on the amenity area.
- July 5-19, 1976 The developer, CMHC, residents and city staff continue to meet to try to resolve the issue.

July 20, 1976 A revised rezoning application, going along with the ratepayers' wishes, is submitted and passed by Council.



SOURCE: Task Force Staff





SOURCE: Task Force Staff



As a result of the revisions, the developer's application for a change from R1 to R4 to permit the access driveway was rejected. Further, land facing the adjacent residential area was rezoned from R4 to R1, creating a buffer zone requested by the citizens.

While the Kings Arms Apartments are already built and occupied, the issues surrounding this approval have not been resolved. The citizens are still concerned about the general traffic problem in the area, and City Council has agreed to a long term study of the matter.

What is not evident from the chronology is that the rezonings were not necessary for construction of the project, a point made by the city's planner at the June 29th Council meeting. The requested rezoning was seen as a "houskeeping matter" by the planning staff and the developers, and both these groups saw the matter as routine, expecting no opposition from the citizens. To accommodate the proposed development without the rezoning required a rearrangement of the site plan. (See Figure 12.3) Because the project has only one entrance, a long driveway now runs through the site on land which, because it was the only flat land in a hilly area, was to have been the amenity area, containing a children's playground and possibly a swimming pool. This driveway traverses a steep grade, and is expected to be difficult for cars during the snowy winters in Dartmouth. To keep it free of ice and snow may entail increased maintenance costs.

As in the case of Bedford Glen, this case reached a resolution because the developers and citizens sat down together to reach a solution. However, in this case it was the developer who made all the concessions. While some were readily made, such as the Rl buffer, others did not come easily at all - most notably the relinquishing of the second access to the site. Not only the developers, but also CMHC and the city planners felt this was the wrong decision. However, to take the case to the Provincial Appeal Board would have meant a further delay which the developers claimed not to be able to afford.

The original Kings Arms Apartments proposal called for 125 apartment units in six buildings. These buildings were to have been split into two groups of three each, with one group being serviced by an entranceway from Mic Mac Boulevard and the other group by an entranceway from Glen Manor Boulevard. The final project remained as 125 apartment units in six buildings; however, all the buildings are



now serviced by an entranceway only from Mic Mac Boulevard. As an aside it might be noted that this creates a potential hazard by providing only one entrance for emergency vehicles. This change in road pattern resulted in an increase in the length of the roads required as well as in the relocation of the buildings on the site. The change in location meant that the excavation had to be made in rock rather than in soil. Although approval of the project was delayed by only two months, the timing resulted in winter construction on part of the project instead of fall construction. This too added to the cost. It should be noted that three of the buildings that were not affected by the rezoning were already under construction. Because of the delay the site superintendent and other project staff were required to be idle for a period of time which also added to the cost. One benefit to the developer was that because the rezoning on one lot was refused, the project was reduced in land area resulting in freeing a lot for a single family house with an estimated lot value of \$10,000.

As this project was a limited dividend project funded by CMHC, CMHC had already approved the site plan, the mortgage financing and the rental structure. We therefore have an objective analysis of the extra costs in that they were assessed by CMHC and the permitted rents were increased as a result by \$8.00 per unit per month.

A summary of the financial impact is shown in Figure 12.4.

## D. Implications of Citizen Resistance

Other case studies presented in Chapter 12 of the Research Studies Volume tell stories that differ in interesting but ultimately superficial ways from the Bedford Glen and Kings Arms stories (although the Bedford Glen project had the highest cost increases of all the case studies). While each case has its own unique characteristics, all have roughly the same broad economic implications that are of interest to us here. First, citizen resistance has often resulted in decreasing the supply of new dwellings over time. Second, since citizen resistance is often directed against proposed medium and high density developments, it may ultimately result in increased land consumption at the same time that it is decreasing the number of units produced. For precisely the same reason, citizen resistance may tend to discourage production of low and middle income housing relative to upper income housing. The third consequence of citizen resistance is to increase the expected costs of development and thereby reduce potential supply. In future years developers will be required to make

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY



Kings' Arms Apartments - Dartmouth, N.S.

#### Increased Costs Due to Citizen Resistance

ITEM		COST	COST PER UNIT	
1.	Increased cost of roads	\$16,000.00	\$128.00	
2.	Extra excavation costs	15,000.00	120.00	
3.	Winter construction extras	39,000.00	312.00	
4.	Increased project staff cost	13,500.00	110.00	
5.	Carrying costs	21,666.00	173.00	
6.	Redesign and engineering fees	8,000.00	64.00	
7.	Release of single family lot	-10,000.00	-80.00	
Tot	al Increased Costs	\$103,166.00	\$827.00	

SOURCE: Task Force Research Studies Volume Chapter 12.



rough estimates of these costs in deciding on whether or not to undertake development. Ironically, the expected likelihood of meeting citizen resistance is probably greater in infill developments than in urban fringe developments. Thus citizen resistance is likely to dissuade developers from undertaking infill development at precisely the time when it seems that public policy should be encouraging such development.

Finally, citizen resistance to development tends to increase the risk present in land development. As mentioned several times in this report, increases in risk will increase the expected profit margin required if businesses are to be willing to participate in land development. High risk also tends to favour large integrated firms and this may contribute to increased industry concentration.

It is the opinion of the Task Force that citizen resistance to development has certainly not been a major contributor to high lot and housing prices up to the present time. Prices were demand-determined during the early 1970's as we have often argued. Similarly, citizen resistance is a fairly new phenomenon, and we have also argued that supply restrictions of this type only begin to produce significant price increases as their effects become cumulative over a number of years. The Task Force is concerned, however, that from the present time onward, citizen resistance will become an increasingly important determinant of lot prices. Further citizen resistance may discourage medium and high density development, discourage the production of low income housing, discourage infill development, and contribute to increased concentration in the development industry for the reasons noted above.

The introduction to this chapter noted that no attempt would be made here to assess any beneficial aspect of citizen participation such as better overall planning. Such an investigation, while obviously of great importance, lies well beyond the Task Force's terms of reference. Perhaps we can conclude, however, by noting that the reasons for citizen resistance to development are certainly considered legitimate in our socio-economic system. On the other hand, we also wish to emphasize that the desires of potential home buyers for decent, affordable housing are also legitimate interests, and therein lies the problem. Existing homeowners have highly effective political representation at the municipal level. Potential home buyers, however, have no such direct representation and are at best indirectly represented by the developer.



It thus seems that the political process contains an inherent bias in favour of one of these conflicting groups. It does seem legitimate, therefore, to label citizen resistance as a "problem" and to suggest that this problem may continue to grow in the absence of more effective political representation for the potential home buyer.



Another set of important real world factors that was ignored in our early discussions of land price determination relate to various taxes that either affect land prices directly or indirectly via their effects on agents operating in the land market. As was the case with the ownership concentration issue a good deal of controversy exists over the effect of taxes on land prices. In the latter case, however, good empirical work is extremely difficult and the Task Force with its limited time and budget cannot hope to offer the same type of definite conclusions that were offered in the chapter on concentration. The basic reason for this difficulty is that taxes set in motion complex reactions that work their way through the economic system to eventually react back upon the original variables affected by a particular tax. One consequence of this complexity is that the long-run effects of a particular tax may be the opposite of the shortrun effects. Similarly, we cannot precisely measure the effect of taxes because we cannot, of course, know with certainty what would occur in the absence of those taxes.

The major issues and controversies involving the effects of taxes on the land market can probably be divided into four types for purposes of analysis. It might prove expositionally convenient to define each of the four as a hypothesis and then proceed to analyze them individually. (A) Taxes have reduced the raw land potentially available for residential development. (B) Taxes have created certain costs unique to the development industry that are passed on to purchasers of housing. (C) The relatively recent requirement that developers bear all servicing costs instead of having municipalities finance services through taxes (still in practice in Quebec) has resulted in substantially higher lot prices. (D) Taxes are acting to alter the structure of the land development industry. In particular, taxes are contributing to increasing the concentration of raw and serviced land ownership.

# A. Taxation and the Supply of Raw Land

The first hypothesis results from separate and combined effects of a number of taxes. One of these is capital gains taxation which became effective in Canada on January 1, 1972. The original legislation deferred indefinitely, taxes on farmland gifted or bequested to a spouse. In addition, since 1973 capital gains may be deferred indefinitely on farmland transferred by a farmer to his children. The deferred tax becomes payable if and when the children stop farming or sell the farm to buyers not classed as family members. This indefinite postponement could act as an important incentive to



keep farmland in family use and thus reduce the supply of potential development land and raise the price of serviced residential land.

An additional form of capital gains taxation was created in Ontario with the enactment of the Ontario Land Speculation Tax in April, 1974. Several provisions of this tax discourage conversion of farmland. However, these provisions and tax liability can be avoided without great difficulty as will be discussed later.

Succession duties, gift taxes and land transfer taxes may also discourage the conversion of farmland and therefore reduce the supply of land potentially available for development. Only two provinces now levy succession duties and gift taxes - Quebec and Ontario. Farm property passed on to a farmer's children is accorded preferential treatment under succession duties in Ontario and under gift taxes in Ontario and Quebec. Ontario and Quebec are the only provinces in Canada imposing a land transfer tax. The City of Halifax also levies a land transfer tax. In all cases the taxes are very small and do not give preferential treatment to transfers within families. The Ontario tax however, taxes real estate purchases by nonresidents of Canada at 20% and the Quebec tax levies a 33% duty on raw land purchases by non-residents of Canada. In both cases, however, non-resident land developers can defer and ultimately avoid the tax if the property is developed and resold.

The final type of tax that affects the potential supply of land for development is the property tax. In most provinces land on the urban fringe which is being farmed is assessed at its value in use as farmland regardless of whether the land is owned by farmers, developers, or speculators. Since the development value of farmland adjacent to urban areas is ordinarily much above its value as farmland, farmland is accorded preferential assessment treatment. Some provinces, in addition, tax farm properties at a lower rate than other properties or give tax rebates to owners of farmland. The exact arrangements vary from province to province and are treated in detail in the Task Force Research Studies Volume, Chapter 13. It is sufficient here to note the general point that in all provinces the property tax discourages conversion of farmland into residential land since the act of conversion increases the property tax liability.

As noted above, estimation of the importance of each of these taxation measures in retarding the conversion of farmland into urban uses is difficult.



Studies that have been done both in Canada and in the United States, however, show that these tax provisions seem to cause nothing more than a slight reduction in the quantity of farmland converted to urban use. Taken together their combined effect is somewhat greater. Nevertheless, we are willing to venture the opinion that the collective effect of tax measures giving preferential treatment to farmland do not significantly affect the longer-run supply of potential development land.

## B. Taxation and Development Costs

The second hypothesis noted above was that taxation has created certain costs, unique to the development industry, that are passed on to the purchasers of housing in the form of higher prices. One provision of the income tax is frequently mentioned in this regard. Beginning in May, 1974, with the exception of the Ontario Corporate Income Tax, owners of undeveloped land can no longer deduct interest and property taxes on this land as expenses in the year these payments were made. Instead these payments are added to the cost of the land and deducted from the sale price when the land is sold. Prior to May, 1974 these interest and property tax payments were deductible as an expense in the year they were made and losses created could be offset against other income. The government's stated purpose in deferring this deduction was to force developers, alleged to willfully withhold land off the market, to bring that land onto the market more quickly.

The immediate impact of non-deductibility was to raise the effective carrying costs on undeveloped land. Current income tax payments increased sharply while deferred taxes payable declined. Companies had fewer internally generated funds to use for expansion of their activities. In brief, non-deductibility of carrying costs tended to reduce cash-flow.

In the short run, it seems highly unlikely that this measure had any significant impact on the supply or price of serviced residential land. Prices were demand-determined in 1974 and 1975 in all parts of the country and in most areas, supply was constrained by the capacity of the industry and by subdivision approval processes rather than by the industry willfully withholding land.

The longer-run effects will likely depend upon a number of factors. First, it was argued above that the price of raw land is a residual: it represents the amount a development company is willing to bid after deducting all costs plus some



profit margin from the expected selling price of developed land. Thus if the non-deductibility of carrying costs represents an increased cost to the firm, non-deductibility may partly result in a reduction in the prices that developers are willing to bid for raw land in the future. On a percentage basis, this reduction should be small and should not prove important in the decisions of farmers to sell. If this argument is correct the effects of non-deductibility are then partly borne by farmers in terms of lower raw land prices.

A more important long-run effect of non-deductibility is that it tends to favour the larger, well-integrated firms relative to small firms. A discussion of this possibility is postponed, however, until we consider the fourth hypothesis mentioned above: the argument that our tax structure is acting to increase concentration.

Although we have consistently avoided dealing with qualitative issues in this Report, we might also raise the possibility that one effect of non-deductibility may be to drive developers away from holding long-range land. To the extent that this implies that developers will give up on coherent, large-scale phased developments in favour of a series of small, non-integrated, short-run projects, the quality of new development may depreciate.

Lot levies instituted over the last few years represent a second type of new cost that now faces development firms. In most municipalities outside Quebec, residential land developers are usually responsible for the cost of installing municipal services such as sewer, water, roads, gutters and sidewalks within their subdivisions. Municipalities generally are responsible for providing trunk services to the developers' property: sewerage and water treatment plants, trunk sewer and water lines, and arterial roads. Lot levies which originated in Ontario were an effort by municipalities to get developers to pay an appropriate share of the costs of these trunk services.

Lot levies are commonest in Ontario and British Columbia though they are also found elsewhere. Levies are not generally a feature of the Quebec or east coast housing markets. Levies range from nil in most Quebec municipalities to \$4,000 per single-detached lot in some Ontario municipalities. In some of the latter, it appears that levies are now greater than the off-site servicing costs of the municipalities and thus represent an attempt on the part of existing municipal corporations to cash in on the housing boom by "selling" subdivision



#### approvals.

The impact of lot levies on development firms is similar to the impact of the non-deductibility of carrying charges, although the former can be much more substantial in Ontario and British Columbia. Both lot levies and non-deductibility increase a firm's costs prior to the receipt of revenues from sales. Thus both measures cause potential cashflow problems and increase the financial resources needed by land development firms. Unlike costs due to non-deductibility, however, lot levies cannot necessarily be recouped at the time of sale.

Lot levies became increasingly common in the early 1970's in a period of exceptionally high land prices. Large profits were being realized on land purchased years earlier. Thus it seems likely that the short-run impact of the levies was that they were absorbed by the development firms and windfall profits were reduced accordingly. As has been noted several times in this Report, prices were demand-determined all across the country during this period and it seems highly unlikely that lot levies have had any impact on final lot prices up to the present time.

But it has also been suggested above that this period of high windfall profits has come to a close especially now that developers are replacing their inventories at 1970's prices. Thus in the future, lot levies will most certainly have an effect on raw land and on serviced lot prices. At one extreme, lot levies could be fully borne by farmers in terms of reduced raw land prices. In this case, the lot levies would amount to a transfer of wealth from farmers to municipal corporations and their existing ratepayers. At the other extreme, lot levies could be fully passed on to home purchasers in the form of higher lot prices. In this case, the lot levies would amount to a transfer of wealth from new home buyers to municipal corporations and their existing ratepayers. The actual outcome will likely lie somewhere in between.

## C. Servicing Requirements and Lot Prices

The third hypothesis mentioned above was that the relatively recent requirement that developers bear all servicing costs instead of having municipalities finance services through taxes had resulted in substantially higher lot prices. At one time most municipalities used local improvement charges to finance the cost of providing sewer, water and roads to new subdivisions. This meant that the purchasers of new housing paid these charges through property tax installments. Municipalities issued debentures having a 15 or 20 year term and



prorated the annual debt service charges to the affected property owners generally on a foot frontage basis.

At present, only Quebec municipalities still finance these capital costs through local improvement charges. The universal practice elsewhere is to require the developer to pay these costs prior to construction of new housing. The Province of Quebec is urging its municipalities to require developers to pay a portion of the capital costs of providing sewer, water and roads.

The price effects of requiring developers to provide all services are similar to the effects of lot levies. Servicing costs are many times greater than lot levies, however, and there seems to be no professional disagreement with the viewpoint that the requirement of developer servicing has substantially raised the price of serviced lots. We saw in Chapter 8 that some municipalities high grade their service requirements and standards, which may be related to the requirement that someone else, the developer, is required to pay for them. To the extent that this happens, the cost of a serviced lot is even higher under the developer financing method than with local improvement charges.

There is one important reason for discussing servicing charges separate from lot levies: to the extent that servicing costs included in lot prices merely replace local improvement charges levied on the home buyer, developer financing of services may have little or no financial impact on home buyers. If developers pay for services, home buyers pay for them through mortgage payments. If municipalities finance the services through charges levied on the home buyer, home buyers pay for them through their property taxes. This rough equivalence will, however, disappear if municipalities high-grade their services as noted above or if municipalities can obtain financing on significantly better terms than can be obtained by private firms.

D. Taxation and Development Industry Concentration Many of the ideas discussed up to this point tend to suggest the fourth hypothesis mentioned above: taxes are acting to alter the structure of the land development industry; in particular, taxes are contributing to increasing the concentration of raw and serviced land ownership. The basic idea is that a number of factors have acted to cause huge increases in the financial resources needed to profitably participate in land development. First, we have mentioned the reduction in cash flow caused by the non-deductibility of carrying costs on undeveloped land.



Second, there is the financial requirement that developers front-end the cost of municipal services within subdivisions. Third, we have discussed the increasing imposition of lot levies by municipalities. Fourth, in Ontario a number of provisions of the land speculation tax tend to favour the larger developer/builder firms. Finally, there is a feature of the income tax that we have not previously mentioned. Real estate corporations can deduct "losses" arising from capital cost allowances on rental buildings from other sources of income including land development profits. This tends to favour the larger integrated firms over small firms or even over large development firms that have no such rental income.

Summarizing, we suggest that the influence of various land taxes, corporate and personal income tax laws, and municipal lot levies on land development and lot prices has probably been minor up to the present time. In the future, however, it seems likely that these factors may lead to the elimination of many small development firms and thus lead to a significant increase in concentration in the development industry. Thus, while a previous chapter has shown that industrial concentration is not an existing problem, it may become a significant problem in the future.



#### A. The Objectives of Large-Scale Land Assembly

It is beyond the scope of this report to consider the broad question of whether or not the government should be engaged in land acquisition and lot servicing programs. The Task Force has been charged with investigating the determinants of land prices which is a large enough question in itself. The purpose of this chapter, therefore, will be to attempt to make some assessment of the impact of land banking and lot servicing programs on the over-all level of and changes in urban land prices. This objective more or less implies that the discussion will be confined to large scale assembly and servicing programs on the urban fringe. No matter how large, infill projects designed to meet special objectives generally have no effect on overall prices (nor are they intended to) and will not be dealt with here.

Before presenting our analysis, a brief history of large scale land banking is likely needed to help clarify what in fact the objectives of these programs were. Federal involvement can be traced back to 1949 when Section 40 of the National Housing Act permitted CMHC to jointly undertake with a province the acquisition and development of land for housing purposes. In 1964, Section 42 of the National Housing Act provided federal loans up to 90% for acquisition and servicing of land required in public housing programs. The Hellyer Report (Federal Task Force on Housing and Urban Development) released in January, 1969, made a recommendation that more public land ownership was necessary in order to achieve cheaper land prices.

In June of 1969, Section 42 of the National Housing Act was expanded to allow the acquisition of land for general as well as public housing purposes. Mr. Andras, Minister of Urban Affairs, stated in the House of Commons on June 13, 1969: "We must also face another problem created by increased urbanization, the inflated land costs in our larger cities ... This innovation in federal assistance to provinces and municipalities affords us an epportunity to help make many more Canadians realize their hopes for houses of their own".

In 1973 the Minister of Urban Affairs announced a massive enlargement of the program adopted in 1969. The federal government offered to make available 500 million dollars in loans to provinces over the next five years, the money to be used for the acquisition of land that would eventually be serviced and sold as building lots. Land assemblies were expected to bring down rising land prices. Mr. Basford, Minister of Urban Affairs, told the House of Commons on March 15, 1973, that "the price

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of land is one of the most critical factors in the cost of housing in most markets throughout Canada. I propose to encourage provincial and municipal governments to become more active in public land acquisition and servicing". A more direct statement by Mr. Basford was contained in the explanatory notes on this bill: "One of the most critical factors in the cost of housing is the price of land. All governments must be prepared to act to increase the supply of serviced land if housing is to continue to be available and accessible to Canadians. An overall strategy is necessary and to this end, provincial and municipal governments will be encouraged to become more active in public land acquisition and servicing".(1)

It thus appears clear that the large sums of money committed by the Federal Government were for the purpose of achieving reductions in land prices. The exact mechanism by which this objective was to be achieved was never really spelled out in the written record of political debate. A document widely quoted by supporters of the government involvement, however, was a 1972 book by Dennis and Fish, Low Income Housing, Programs in Search of a Policy (Hakkert, 1972). This book asserts that there are six ways in which the government can achieve its price objective: (1) Government can avoid taking speculative profits on raw land. Land can be acquired well in advance of need, and sold for acquisition cost, plus carrying charges, plus servicing costs, plus perhaps a small profit. (2) Government can buy more cheaply with the power of expropriation at fair market value, without paying holdout prices. (3) Because of its planning powers, government can ensure that all of its land is marketed. (4) Government holding costs are lower because it can borrow money more cheaply. (5) Public servicing costs are lower. (6) Large scale land development activity has a moderating effect on private prices because it can flood the market at any time that price increases get out of hand.

Each of these six points has its supporters and its critics. Carr and Smith in Land Economics (1976) provide evidence that point (4) is false. These and other critics argue that absolutely no evidence has been produced to show that point (5) is true and that, in fact, existing evidence shows that point (2) is false. The facts, they state, show

<sup>(1)</sup> Explanatory notes on a bill introduced in the House of Commons by Honourable Ron Basford, Minister of State of Urban Affairs, January 30, 1973.



that expropriation usually results in settlements greater than market value. This Report has essentially argued that point (6) is likely false. Since short-run prices are dominated by the existing stock of housing, significant changes in new production have sharply limited short-run effects. Finally, a number of authors such as Baxter and Hamilton have argued that point (3) is largely false in practice.(1) They argue that the planning authorities are generally independent (and rightfully so, they state) of the public development corporations and thus the latter bear the same uncertainty about subdivision approvals that is borne by private developers.

The Task Force is not in a position to conduct a detailed analysis of these arguments. What we can do is present several case studies of how land banking programs have operated and evolved over time. Case studies will be presented for Manitoba, for Saskatchewan and for Ontario.

Our limited time and budget further restricted us to addressing only two issues in each case study. First, we examined whether or not government corporations were able to acquire land more or less cheaply than private developers. This relates to argument number (2) of Dennis and Fish noted above. Second, we looked at the timing of government land purchases and their possible effect on raw land prices. Following the case studies, a short section on the ability of government land programs to moderate short run price fluctuations is presented. This relates to argument number (6) of Dennis and Fish as noted above and the stockflow issue.

B. Case Study I:
The Manitoba Housing
and Renewal Corporation

The federal government offer of 1973 mentioned above led the Manitoba Housing and Renewal Corporation (MHRC), established in 1969, to begin a large-scale land acquisition program in Winnipeg. 35.1 million dollars was committed to the program which purchased over three thousand acres in the four-year period 1973-76. Purchases and prices paid are shown as follows:

Year	1973	1974	1975	1976
Millions of Dollars Committed	3.4	15.9	5.2	10.6
Acres Acquired	530.0	2153.0	292.0	383,0

(1) Baxter and Hamilton in Walker and Smith (editors), Public Property: the Habitat Debate Revisited. Fraser Institute, (1977).



Purchases were made on the open market and not by expropriation. With the wisdom of hindsight, we now know that the corporation began its massive purchases of land just at the worst possible time. The Bellan Commission Report (the Winnipeg Land Prices Inquiry Commission) presented the following analysis:

"Another major factor in the increase of raw land prices after 1972 was heavy purchases by the Manitoba Housing and Renewal Corporation and Qualico Developments Limited. MHRC, in response to the federal government's offer to finance the creation of 'land banks' by provincial agencies, began to buy land on a substantial scale in 1973 and by 1976 had acquired over 3,000 acres in Winnipeg, within the perimiter of ..."

"The extensive purchases of these two organizations, one drawing on the long purse of the government and the other a large private firm that was determined to acquire a great deal of land quickly and with small cash payments, had a marked effect on land prices. Speculators who anticipated where either might wish to buy rushed in to buy beforehand, for resale to one of the giants at a handsome markup. Even where no speculators were involved, prices rose sharply: owners were not slow to ask the prices that could be extracted from eager buyers possessed of large financial resources."

"The big land banks assembled by MHRC and Qualico contributed to the escalation of prices in yet another way. By permanently withdrawing land from the market they caused the demand of investors to become concentrated on a smaller available supply, forcing the price further upwards".(1)

Bellan emphasizes that MHRC not only did not obtain land cheaply but that it bought heavily at precisely the wrong time and thus contributed to rapidly rising raw land prices. What the Commission's Report did not emphasize is that during this period MHRC did not put a single serviced lot onto the market. The first lots should be supplied to the market by spring of 1978. MHRC was buying at or near the top of the market not to replace inventory

<sup>(1)</sup> Report and Recommendations of the Winnipeg Land Prices Inquiry Commission, 1977, p. 37.



but to add to inventory. Its actions during the boom years thus did not tend to smooth out price fluctuations or depress prices but rather likely helped to increase prices. Now the corporation is beginning to supply lots to a soft market which may depress prices to unprofitable levels (given the high at which raw land was purchased). On the other hand, we have repeatedly argued that these supply effects have a sharply limited ability to affect short run prices and thus we do not, of course, believe that the activities of MHRC were a primary cause of the Winnipeg lot and housing price boom. Bellan could certainly be right, however, if he was simply suggesting that the activities of the MHRC helped cause a speculative bubble in raw land prices.

One might argue that such criticisms of poor timing are based on hindsight but that no one is smart enough at any point in time to know exactly where the economy stands in relation to the business cycle. Indeed, Bellan cites Qualico, a private firm, as also buying heavily during the boom years.

But this is precisely the point. The argument drawn from Dennis and Fish above (point 1) relies for its validity on a government corporation having excellent business sense and good timing. If its timing is bad, the government corporation may in fact increase speculators' profits rather than lower them as MHRC seemed to do.

A final important question should be raised in this regard. The argument that a government corporation can supply lots more cheaply than private industry by refraining from taking speculative profits embodies a crucial assumption: that prices have taken an unexpected upward jump between land purchase and land sale so that the opportunity for speculative profits does in fact exist. We have argued several times in this Report that raw land prices fluctuate considerably and some evidence exists that prices have lately fallen in many parts of the country. It occurs to one to ask the question of what happens when a government corporation buys at the top of the market and sells at the bottom. For a private corporation, the resulting losses could be adequately covered by high profits realized at the opposite end of the business cycle; and if they are not, the public does not lose. But if a government corporation takes no "speculative profits" in good years, who is to cover losses in bad years?

In addition to considering the timing issue, we should also consider the frequent suggestion that

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government corporations inevitably pay more for land relative to private buyers because of the open and constrained way in which they are forced to operate. In order to test this hypothesis, the Task Force examined land transactions by MHRC and private buyers in the Charleswood area of Winnipeg from data provided to the Task Force. Transactions are shown in Figure 14.1. Figure 14.2 averages the prices paid in each year 1973-1976 by MHRC and by the private buyers. The last row of this Table presents the differences in per acre prices.

This sample is too small to draw definitive conclusions, but it does not support the hypothesis that a government corporation will necessarily pay more for raw land. In 1973 and 1974 MHRC paid less for land while in 1976 it paid more. Given the small sample, it is really not possible to make a more definitive statement than that.(1) Perhaps even a greater difficulty is that these parcels may, of course, be of different quality (e.g., the number of years away from development), a problem that will be discussed in the next chapter.

Two features of MHRC's corporate set-up undoubtedly helped it to buy land as cheaply as private buyers. First, it has demonstrated flexibility in the location and timing of its purchases. Secondly, it has the ability to pay cash for land; this clearly is more attractive to potential vendors than the standard financing method of the private sector of giving back to the vendor a partial mortgage.

To summarize, we have been critical of MHRC for buying large amounts of land at the top of the boom. By itself, this might not have been so damaging if the corporation had attempted to market the land as serviced lots as quickly as possible. But the corporation bought without any plans for immediate development. The effect of such an action is obviously to reduce the amount of land that is available. On the other hand, we have also found no support for the hypothesis that the corporation paid more than market prices for the land that it did buy. Thus no inefficiency was obvious in this phase of its activities.

C. Case Study II:
The Saskatchewan Housing
Corporation

In 1973, the Saskatchewan Housing Corporation (S.H.C.) was formed and given, under the Land Assembly Program, a substantial budget for the

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(1) The proper technical procedure is to apply what is known as a Chow test to certain regression equations but the sample is unfortunately too small. (Discussed in Chapter 14 of the Research Studies Volume).



#### CHARLESWOOD AREA OF WINNIPEG

	DATE		PURCHASER	PRICE PAID PER ACRE
(1)	MHRC	properties:		
	A	Apr/72 Dec/72 Jul/76	McCreary Investments Ltd. Tundra Trading Co. MHRC	\$ 700 720 3,992
	В	Dec/73	MHRC	1,499
	С	Mar/69 Apr/71 Nov/73	Nonico Investments Ltd. Elizabeth Hooker MHRC	250 500 900
	D	Jan/74 Aug/75	Young-Wood Properties MHRC	400
(2)	Priv	ate Properties:		
	A	Jan/75	Colt Lands Ltd.	1,781
	В	Dec/76	Interstate Advance Ltd.	3,472
	С	May/73 Aug/73	Kirkfield Properties Qualico Developments Ltd.	1,052 2,073
	D	Oct/73 Feb/74 Nov/75	Coronet Enterprises Sunny Hills Investments Qualico Developments Ltd.	750 750 4,000
	E	Mar/69 Apr/71 Dec/74	Nonico Investments Ltd. Elizabeth Hooker Qualico Developments Ltd.	250 500 3,990

SOURCE: Task Force Research Studies Volume, Chapter 14.

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## AVERAGE PRICES PAID PER ACRE FOR RAW LAND IN THE CHARLESWOOD AREA OF WINNIPEG

	1973	1974	1975	1976
MHRC				
PROPERTIES	\$1,200	-	\$2,200	\$3,992
PRIVATE PROPERTIES	\$1,292	\$1,713	\$2,891	\$3,472
DIFFERENCE	<b>\$ -</b> -92	\$ <b>-</b>	\$ -691	\$ +520

SOURCE: Task Force Research Studies Volume, Chapter 14.



purchase of raw land for future residential development. The money came entirely from provincial sources; no federal funds under Section 42 of the N.H.A. were used because of the interest rate involved. During the next four years, 1974 - 1977. both the public and private development sectors purchased substantial holdings. The S.H.C. expended \$2.05 million to buy 985 acres of undeveloped land on the periphery of Regina. Four private developers, during the same period, spent slightly over \$8.5 million to buy approximately 2400 acres. Of these four, the largest by far was Cairns Homes Ltd., a subsidiary of Nu-West Developments. These purchases have made the S.H.C., and Cairns Homes, the two major landowners in Regina as well as the city's two major developers for the foreseeable future.

All these purchases were made at different times during the four-year period, for land of varying attractiveness in terms of its probable distance in time from development.

A number of factors make data on the Regina market unusually easy to collect. First, the urban area is relatively small. Second, the method of land survey has encouraged the purchase of peripheral land inlarge tracts - usually quarter-sections or greater - and rendered the record of the purchases correspondingly easier to compile. For these reasons, it has been possible to take into account all public and private purchases of peripheral undeveloped land during the four years, rather than a partial sample. Because the information is complete, the conclusions are comprehensive.

Figure 14.3 shows the purchases of developable land made by public and private sector firms in Regina from 1974 - 1977. In this case, we were able to classify parcels according to the order in which they would be brought onstream. Purchases in Figure 14.3 are therefore, classified as "near" to development, "medium", and "far" from development.

This difference in quality makes comparisons difficult. Ideally, one could use current interest rates and expected future rates of land price appreciation to bring the parcels to a common base. We shall not attempt to do so. The problem can be illustrated, however, by looking at the 1974 purchases. S.H.C. purchased 320 acres of "far" land for \$1000 per acre while Cairns purchased 320 acres of "medium" land for an average of \$1,800 per acre. Without more information such as how far is "far" and expected future rates of price appreciation, one cannot say who made the better deal. In

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PURCHASES OF DEVELOPABLE LAND, PUBLIC AND PRIVATE SECTORS: REGINA, 1974 - 1977

	Price per Acre	Date of Purchase	varyi	er of acting distance develops	ance	
SASKATCHE	WAN HOUSING COR	PORATION:	Near	Medium	Far	
A	\$ 1,000	Dec/1974			320	
В	\$ 1,501	Feb/1975	160	160		
С	\$ 3,175	Aug/1976		160		
D	\$ 4,000	Apr/1977		160		
PRIVATE D	EVELOPERS:					
1	\$ 1,000	Mar/1974	160	160	160	Harvard Devts.
2	\$ 1,800	Apr/1974	320	480		Cairns Homes
3	\$ 3,000	May/1974			160	Cairns Homes
4	\$ 3,850	Jan/1976		160	160	Wascana Devts.
5	\$ 4,375	May/1976	160			Cairns Homes
6	\$ 8,250	May/1977			160	B.A.C.M. Ltd.
7	\$10,000	Jun/1977			320	Cairns Homes

SOURCE: Data provided to the Task Force



other transactions from 1974, Harvard seemed to make a better deal than S.H.C. (due to better land for the same price) while the other Cairns' purchase seemed to be a poorer deal than the S.H.C. purchase (due to a higher price for the same quality land). Thus in 1974 the record is unclear.

For 1976 and 1977 on the other hand, S.H.C. seemed to strike deals that were far better than those obtained by the private developers. S.H.C. generally obtained land nearer development for lower prices. On balance then, it appears that the S.H.C. did better than private developers during the period in question. To date, the Task Force has not performed the proper statistical test of this proposition (a Chow test) which might not turn out to be significant in any case due to the small sample size.

While S.H.C. seemed to have a very good record on prices paid for raw land, the timing of its purchases were similar to those of MHRC. S.H.C. bought large parcels in December 1974 and February 1975 at or near the top of the boom. The extent to which this may have helped heighten and sustain the boom we will likely never know. It is interesting to note that private developers made no purchases for a 20 month period from May 1974 to January 1976 after having bought heavily in the spring of 1974 on the upside of the boom.

### D. Case Study III: The Ontario Housing Corporation

Ontario Housing Corporation's land assembly program was launched in August 1967 as part of their Home Ownership Made Easy (H.O.M.E.) Plan. At the end of the 1968 Federal Provincial conference on housing and urban development, the Ontario Minister of Municipal Affairs stated the provincial opinion that rising land costs should not simply be attributed to the increased cost of services, and suggested that the significant factor in land cost was the cost of raw land. Ontario suggested that "massive public intervention in the acquisition of land would do much in resolving the problem" (Federal-Provincial Meeting on Housing, C.M.H.C., 1968).

In 1972, in response to specific questions directed to OHC from the Ontario Advisory Task Force on Housing regarding the purposes to be served by their land assembly program, OHC replied:

"...OHC's involvement in the land assembly process can temper or offset price differentials based on such factors as zoning, scarcity, speculation, and accrual to the public of the betterment inherent in



development" (OHC submission to the Ontario Advisory Task Force on Housing Policy, 1972).

The objectives of OHC's land assembly strategy was reiterated by the Minister of Housing in 1973 as follows: (A) to purchase raw land at reasonable prices in areas of rapid urbanization; (E) to ensure that land is available to support the development proposals being produced to structure growth in the various economic regions; (C) to provide for development in selected regions by establishing a base or centre (new town) in order to achieve a balanced community; (D) to minimize the effects of land speculation in the more rapidly developing areas of Ontario; (E) to provide a means of developing communities to a higher level of socioeconomic achievement.

To meet these objectives, OHC is permitted to purchase on the open market or to expropriate, though the Corporation has generally followed the free market process. A real estate agent is selected to acquire land, acting as an agent for an undisclosed purchaser. Extreme confidentiality is required during the acquisition process since land prices tend to escalate rapidly when the pattern of an assembly becomes evident. Real estate brokers appraise the market and a target price is determined. This price is reviewed from time to time and the acquisition proceeds on the basis of acquiring the total lands at the average price previously determined.

It is probably fair to suggest that the acquisition process turned out to be considerably more difficult than the government had hoped. To illustrate this, we would like to present several examples of the difficulties that can arise. Our purpose here is not to embarrass OHC but simply to show that theoretical advantages can turn into practical nightmares.

On June 6th, 1973, the Ministry of Treasury, Economics and Intergovernmental Affairs published the Parkway Belt West Study which identified the South Milton area as a site for future urban growth. In December 1973, Ontario Housing Corporation began acquisition of 2,300 acres of land in the southeast portion of the present town of Milton. The province believed that the Parkway Belt West Study would hasten land speculation in the Oakville-Burlington area and believed it essential "to acquire as quickly as possible, sufficient land to avoid the pattern of future land speculation". (Legislature of Ontario Debates, Nov. 14, 1974).



The Minister of Housing stated that "Part of our strategy was to cool out the speculative land activity".

On October 18th, 1973 the director of land acquisition for OHC made a preliminary assessment of the South Milton area and warned for a number of reasons that "the assembly of land would be abnormally difficult and costly if the voluntary purchase route is attempted". (Mr. S. C. Proctor, O.H.C. Review Comments, Oct. 18, 1973). After discussions with senior O.H.C. officials, Mr. Proctor was instructed to meet with officials of Gibson Willoughby Ltd. and on November 13th, 1973, an agreement was signed with this real estate firm to act on the government's behalf in the assembly of up to 4,000 acres of land. On November 23rd, a maximum of \$3,000 per acre was established for acquisition till such time as the figure was revised. On December 19th, Gibson Willoughby was instructed to begin raising the offer. General approval was obtained by O.H.C. from the government to acquire sufficient lands at a price not to exceed \$7,000 an acre.

In determining the prices to be paid, "the formal appraisal mechanism was replaced by a study of land prices prevailing in the area and consideration of future trends". (Legislature of Ontario Debates, Nov. 14, 1974). Gibson Willoughby Ltd. had indicated through a blanket evaluation that the properties in the assembly area were worth \$6,000 an acre in October, 1973.

The government's agents bought at least seven parcels of land from five companies (Bonnydown Ltd., Cedar Heights Construction Ltd., Loring Developments Ltd., Arrowdale Developments Ltd., Moccassin Trail Developments Ltd.) with the same principal directors which provided speculative profits to the companies in excess of \$1 million. A detailed examination by the Task Force showed that the five companies purchased most of the properties at roughly \$3,000 per acre less than five months before the properties were offered to Ontario Housing Corporation for \$5,500 per acre. While the government's agents had indicated through a blanket evaluation in October 1973 that the properties in the area were worth \$6,000 - \$8,000 per acre, the companies concerned were able to acquire properties at that time for roughly half of that price which they in turn sold to the government agents.

The government agents first met with Mr. Freedman of Bonnydon Ltd. on December 12th, 1973 who rejected an offer of \$4,500 an acre for a parcel of land.



On December 17th, he indicated that he had 400 acres for sale at \$5,500 an acre, and would consult with other persons and groups who might sell at this price. On January 11th, 1974, Mr. Freedman indicated he could deliver approximately 1,250 acres at \$5,500 an acre, but was only prepared to sell the entire package and not individual parts of the package.

It is apparent from these transactions that the government land assembly was not kept secret and middlemen were allowed to move in and option property which the government bought from them a few months later at greatly inflated prices. One group of companies was allowed to make a profit of over a million dollars within a few months without committing any funds of their own for improvement of the properties.

A second example of difficulties of this type involving large scale land assemblies can be drawn from Ottawa. In January 1972, O.H.C. undertook a survey of need for a land assembly in Ottawa. By August 1972, purchases were being made but no public announcement was made until January 11, 1973. The land assembly was to include approximately 5,000 acres of land in the Township of Gloucester, about 10 miles southeast of the centre of Ottawa. The land was to provide the basis for a new satellite city of approximately 100,000 persons.

Although the land assembly scheme only became public knowledge on the date of the announcement on January 11, 1973, persons living in that rural area were likely aware that a land assembly was taking place. This hypothesis seems to be confirmed through an analysis of O.H.C. purchase prices conducted by the Task Force. The first set of agreements in August 1972 ranged from \$720 to \$1,074 per acre and averaged \$866 per acre. In October the range was \$1,092 to \$3,090 per acre with an average of \$1,692. By December prices had reduced somewhat with a range of \$1,070 to \$1,700 and an average of \$1,214.

A comparison of O.H.C. purchases with non-O.H.C. transactions in the same area indicates that O.H.C. created an artificial market area within the limits of the proposed satellite city which greatly increased the value of the lands therein. There are several examples of how Ontario Housing Corporation paid greatly inflated prices for land during the assembly. Some of the most striking examples are shown in Figure 14.4.



# PURCHASES BY ONTARIO HOUSING CORPORATION TOWNSHIP OF GLOUCESTER (OTTAWA REGION)

	Purchased by Private Agent	Purchased by OHC
Parcel A 211.5 acres	October 1972	May 1973
ZII.5 acres	\$ 283.57/acre	\$ 1,606.00/acre
Parcel B	October 1972	April 1973
37.5 acres	\$ 347.00/acre	\$ 1,692.00/acre
Parcel C	April 1971	July 1973
24 acres	\$ 384.30/acre	\$ 1,611.00/acre
Parcel D	August 1972	February 1973
35 acres	\$ 775.84/acre	\$1,593.00/acre
Parcel E	June 1971	October 1973
31 acres	\$ 482.37/acre	\$ 1,799.00/acre
Parcel F	September 1971	March 1973
26.5 acres	N/A	\$ 1,323.00/acre
Parcel G	July 1972	February 1973
36 acres	\$ 775.00/acre	\$ 1,593.00/acre

SOURCE: Task Force Research Studies Volume, Chapter 14.



211-1/2 acres purchased in October 1972 for \$283.57 per acre were sold eight months later to Ontario Housing Corporation in May 1973 for \$1,606 per acre; 37-1/2 acres purchased in October 1972 for \$347 per acre were sold to Ontario Housing Corporation nine months later, in April 1973, for \$1,692 per acre; 24 acres purchased in April 1971 for \$384.30 per acre were sold to Ontario Housing Corporation within 27 months in July 1973, for \$1,611 per acre; 36 acres purchased in August 1972 for \$775.84 per acre were sold to Ontario Housing Corporation six months later, in February 1973, for \$1,593; 31 acres purchased in June 1971 for \$482.37 per acre were sold to Ontario Housing Corporation 28 months later, in October 1973, for \$1,799 per acre; 26-1/2 acres purchased in September 1971 were sold to Ontario Housing Corporation 16 months later in March 1973 for \$1,323 per acre.

Regarding Parcel G, a Roger and Lise Pilon sold 36 acres to O.H.C. for \$1,593 an acre in February 1973. They had bought the land in July 1972 for \$775 an acre. The same Roger and Lise Pilon then went just outside the South East City site and acquired an additional 25 acres for only \$775 an acre in April 1973 right after the sale to O.H.C.

A Philip and Norma Karam sold 42.8 acres to O.H.C. on October 1, 1973 for \$1,905 per acre; but they only received \$1,035 per acre from the National Capital Commission 10 months later as compensation for its expropriation of part of their lands situated directly across the Highway from the 42.8 acres they had sold to O.H.C. A court case arose directly out of this discrepancy between the higher price freely offered by O.H.C. and the lower price which the National Capital Commission was prepared to pay on its compulsory expropriation for identical lands. The lands were identical inasmuch as the plaintiff, Mr. Philip Karam, had purchased one parcel of some 174 acres in 1959; in 1968 the Ontario Department of Highways expropriated 35 acres for building Highway No. 417 through the property, leaving 45 acres (less four small building lots) to the west of the highway which were acquired by O.H.C. for \$1,905 per acre and 89 acres out of the same parcel east of the highway which (together with other contiguous lands subsequently bought by Mr. Karam) the National Capital Commission expropriated at \$1,035 per acre.

The case of Philip Karam and Norma Karam versus the National Capital Commission was heard by the Trial Division of the Federal Court of Canada. Based largely on the higher price paid by O.H.C., the



Karams objected to the lower price established by the National Capital Commission. The real estate brokers and appraisers testified concerning the South East City O.H.C. land purchases that an artificial market was created within the city site which resulted in greatly inflated land prices. They based their opinion on the rapid acceleration of prices which they considered abnormal and also on the large discrepancies in prices paid by Ontario Housing Corporation in the area itself, where very high prices were paid for lands of considerably inferior value to that of other lands obtained at much lower prices. Mr. Justice Addy found, in part:

"It is evident, when examining the sales of land adjacent to South East City immediately previous to and during the period of the land assembly, that the agents for O.H.C. in the majority of the cases must have paid a much higher price per acre than the actual value at the time when one compares their purchases to other land purchases in the immediate vicinity. This can only be attributed to the artificially enhanced price caused by the joint announcement of the 11th of January, 1973 and by the activities pertaining to the land assembly."

"It is interesting to note that the price paid subsequent to the announcement increased most dramatically."

Ontario Housing Corporation has also faced difficulties in establishing a permanent lot disposal policy. A basic issue is that lots sold below market value result in a substantial windfall gain for the lucky purchasers, who must be determined by some rationing method such as a lottery. In response to this problem, resale controls were placed on houses built on lots leased or purchased by an Agreement of Sale from August 1967 to June 1973. Beginning in June 1973, the lease was modified so that the land could be purchased any time after five years, but only at the market value when the option was exercised.

Rapidly rising land prices, however, brought a concern by lessees that the purchase price could rise continually beyond their reach. This brought a policy change in August, 1975 which allowed the land and house to be purchased at the same time subject to two mortgages. The first mortgage is on the house and the second mortgage covers the full market value of the land. The first purchaser makes payments on the land based only on the Govern-



ment's acquisition and development costs (similar to the land lease). The difference between this government land cost and the full market value of the land becomes due in 35 years easing the burder of initial high land costs while maintaining the HOME Plan as a full recovery program.

A dramatic change in policy was announced in March, 1977 when the Ontario government decided to abandon its direct role in the production and sale of lots. Experience had presumably led the government to believe that this method was inferior to direct subsidization of the home buyer. Accordingly, the province will now gradually sell off its land at market value (some at huge profits) and offer direct grants to qualified home buyers. The new plan will essentially integrate the HOME plan with the federal AHOP plan.

E.The Irrelevance of Public Ownership for Short-Run Housing Price Fluctuations Chapter 4 of this report presented a detailed argument as to why large changes in the production of new housing cannot have significant effects on housing prices in the short run. We have applied this argument in a number of places to suggest that monopolistic developers, restrictive approval processes, rising servicing costs, municipal resistance to development, and citizen resistance to development did not cause the 1972 - 1975 boom.

In this chapter, we would like very briefly to put the same principle another way: government ownership of land could have done little to prevent the housing price boom. Of the 25 areas for which detailed information was presented in Chapter 2 and in the Appendix, six have a high degree of government ownership of undeveloped land. These six areas are listed in Figure 14.5 and percentage changes in three statistics are presented for each area: NHA lot prices, MLS average dwelling prices and NHA average dwelling prices. The average of each statistic for the six areas is then compared to the average for all 25 areas.

Figure 14.5 demonstrates precisely what our earlier theory would predict: government ownership and/or development made virtually no difference to overall urban housing prices during the boom years. The NHA housing series was a tiny bit lower in the six areas while the MLS series increased 10% more in the six areas due basically to large price increases in Regina and Saskatoon. The Task Force does not regard any of the differences as particularly significant.

There is no empirical evidence to show that in practice, government ownership had a significant

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PRIVATE OWNERSHIP FOR SHORT-RUN HOUSING PRICE FLUCTUATIONS

Urban Areas with High Government Ownership	Percentage Change, 1972-1975			
	NHA Lot <sup>1</sup> Prices	MLS Dwelling <sup>2</sup> Prices	NHA Dwelling	
Regina	80.7	99.1	75.1	
Saskatoon	59.2	101.5	71.7	
Winnipeg	154.9	71.5	81.6	
Ottawa	115.3	52.9	64.0	
Halifax	15.9	44.9	26.7	
Saint John	84.3	68.7	17.8	
Average	85.1	73.0	56.2	
Average of 25 areas	86.8	62.3	57.4	
Difference	-1.7%	+10.7%	-1.2%	

1 SOURCE: Table A1 - Appendix 1

<sup>2</sup>SOURCE: Table A5 - Appendix 1

<sup>3</sup>SOURCE: Table A8 - Appendix 1



moderating effect during the boom. As in the case of other supply side factors examined above, the effects of government programs are to be found in long-run price levels rather than in short-run price fluctuations.

#### F. Similarities and Differences

These three case studies suggest a number of conclusions. First, we have mixed evidence as to whether or not government corporations can purchase land as cheaply as private companies are able to do. MHRC was able to buy at market value while OHC seemed to be unable to do so, at least in the two OHC assemblies we examined. SHC on the other hand, appeared to have a strong record in this regard. While we hesitate to generalize here, a basic difference might have been that OHC attempted large scale assemblies in specific locations while MHRC and SHC attempted smaller purchases with more locational flexibility. Perhaps the lesson is that it is large scale assembly rather than government ownership per se that caused problems in Ontario.

Second, there is no evidence that government purchases have resulted in decreasing speculation and raw land prices. Indeed, evidence for Manitoba and Ontario suggests that government activity may have increased raw land prices, particularly when large purchases were made without plans for development. This not uncommon policy simply results in a decrease of raw land supply without any corresponding increase in lot production.

Third, the record of government corporations on the timing of purchases is poor. Evidence from the three case studies suggest that government corporations were heavy purchasers during the boom years and thus did nothing to moderate price increase.

Finally, a simple empirical example was constructed to show that government ownership of land made little difference to the degree of urban housing price increases during the boom. This is, of course, predicted by the stock-flow argument that has come up repeatedly in this Report. Government corporations have a sharply limited ability to control short-run price fluctuations due, again, to the fact that the existing stock of housing dominates prices in the short run.

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Land and housing markets are complex and any attempt to summarize in a few pages what the Task Force has learned is difficult indeed. Yet as research proceeded over the months, a small number of important ideas seemed to reappear again and again. Collectively, these ideas offer tremendous explanatory power about our recent past and define the factors that will determine the near future. Twelve points summarize these findings.

- (1) The land and housing price boom that occurred in virtually all large urban areas outside Quebec in 1972-75 was essentially a phenomenon of asset revaluation primarily caused by increases in demand rather than by restrictions in supply. Inflationary expectations, rapidly rising incomes, liberal mortgage financing, and demographic factors all contributed. The then present price of land as an asset underwent a dramatic revaluation as both potential home buyers and existing owners revised their expectations about the future value of land.
- Several alternate theories which attempt to explain the 1972-75 boom essentially assume that it was caused by restrictions on the production of new housing. These theories, which differ only to the extent that different groups are blamed for the restrictions (e.g., developers, municipalities), embody a fundamental misunderstanding of the housing market. In any given year, the production of new housing amounts to only about three or four percent of the existing stock and thus even a 50 percent cut in the production rate of new housing would only amount to about a two percent cut in the overall supply of housing in the first year. Prices in the short run are thus largely determined by the stock of existing housing. Production restrictions would be ultimately manifested in higher long-run price levels rather than in the rapid short-run price fluctuations which characterize the price boom of 1972-75.
- (3) There is no evidence to support the monopoly developer theory which asserts that ownership of undeveloped land is concentrated in the hands of a small number of powerful developers. Land ownership is only concentrated in urban areas where public ownership is dominant: Ottawa, Saskatoon, Regina, and Halifax. Only in the case of Ottawa did we find some disagreement as noted in the text.
- (4) The influence of various land taxes, income tax provisions (especially the non-deductibility of carrying charges) and municipal lot levies on land development and lot prices has probably been minor up to the present time. These factors along with

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the requirement that developers install all municipal services, however, have acted to cause huge increases in the financial resources needed to profitably participate in land development. In the future, therefore, it seems possible that these factors could tend to eliminate small development firms and thus lead to a significant increase in concentration in the development industry. Thus, while industrial concentration is not an existing problem, it may become a significant problem in the near future in the absence of government-initiated changes to the above factors.

- (5) Rising lot servicing costs were closely related to rising lot prices across the country during the sixties but not during the seventies when lot prices generally appreciated at a rate far faster than servicing costs. Now that the boom conditions have ended, servicing costs may once again come to play a prominent role in determining lot price movements and the differences in lot prices across the country. Future servicing costs will depend in particular on municipal and provincial acceptance of new servicing techniques. It appears that the past decade has been one of resistance to new techniques that can potentially save several thousand dollars per lot.
- (6) The sharp housing price increases that occurred across Canada from 1972 onwards caused, in most areas, even larger proportionate increases in serviced-lot prices. However, the speed with which (not necessarily the level at which) lot prices responded to rising house prices and an increased demand for lots, varied enormously from city-to-city. Where officials were willing and able to speed up the rate at which subdivision applications were approved, lot-price increases lagged behind house-price increases. Where the approvals process was slow to respond, or where other factors such as municipal reorganization by provincial governments delayed approvals, serviced-lot shortages forced lot prices up more rapidly.
- (7) To permanently reduce the price of land in the face of strong demand, it will be necessary for planners and municipalities to permanently increase the rate at which lots are produced. We are concerned, however, that various planning concepts such as contiguous or sequential development policies, greenbelts and higher servicing standards all of which may be warranted will lead to a more restrictive subdivision approvals process and higher house prices. One difficulty is that the economic conditions faced by private and public sector development corporations may not mesh with



established planning principles. Governments may lay down these planning principles, but economic reality decides the type and timing of actual development.

- (8) An increasingly common type of supply restriction and hence determinant of long-run lot prices seems to be municipal resistance to new development on the grounds that new development does not pay its way. To the extent this is true, the primary explanation lies in a combination both of political fragmentation and of a property tax which in most municipalities is structured such that residential properties are undertaxed while commercial and industrial properties are overtaxed relative to their respective uses of public services. The result of this bias in the tax system is that new development may be fiscally unprofitable in municipalities where residential growth is not accompanied by corresponding commercial and industrial growth, especially in bedroom communities bordering large centre cities. It is not new development per se that causes the problem but rather the structure of the property tax and political fragmentation which are to blame. Municipal corporations, of course, represent existing ratepayers and not potential new residents. Thus there is no incentive to change the property tax structure in order to make new residential development pay its way in these communities since such a change would be harmful to existing residents. Municipal resistance to new development is thus likely to continue or increase in the absence of changes to the property tax.
- A second increasingly common type of supply restriction and determinant of long-run lot prices arises from resistance to development on the part of existing residents in many municipalities. Ratepayers groups are often coming to the recognition that they have a vested interest in opposing or charging dearly for new development on various grounds. Such opposition is often highly effective since the potential residents who need housing have little or no political representation. This type of supply restriction seems likely to grow across the country in future years unless some level of government provides representation for the interests of the potential home buyer. Ironically, citizen resistance is often directed at medium or high density developments, low and medium income housing and infill developments, which are precisely the types of projects that public authorities are currently trying to encourage.
- (10) As a number of analysts have suspected, the land development industry enjoyed extremely high



profits during the early and mid 1970's. The fact that the demand boom of this period was not correctly anticipated meant that prices paid for land purchased by companies during the 1950's and 1960's did not accurately reflect future values. On the other hand, it appears that projects based on land bought many years prior to development did not earn returns significantly different from returns earned by projects based on land bought only a few years prior to development. In other words, the evidence does not support the view that profit rates were higher the longer the land was banked by the developer. Similarly, large projects were not found to be more profitable than small projects. In fact, there may be a small negative relationship between size and profits. Both results seem to contradict conventional wisdom.

- (11) In three case studies conducted by the Task Force, no evidence was found to indicate that large scale government land assembly and lot servicing programs have been able to mitigate sharp price increases during the early 1970's. Indeed, the three corporations studied, Manitoba Housing and Renewal Corporation, Saskatchewan Housing Corporation and Ontario Housing Corporation, seemed to buy heavily during the upside and the top of the boom. Further, MHRC and OHC generally bought without immediate plans for development, thus decreasing land supply without increasing lot production. Evidence from the various case studies on their ability to purchase land at market value was mixed. MHRC seemed to be quite successful at purchasing at market prices while OHC seemed to end up paying more for new land relative to the amounts paid by private development firms. Saskatchewan Housing Corporation seemed to pay less than private firms. One important difference was that OHC attempted large scale assemblies in specific locations while MHRC and SHC attempted smaller purchases with more locational flexibility. The lesson is likely that large scale land assembly rather than government ownership per se leads to difficulties in acquiring land at market value.
- (12) Land development is likely to become an increasingly risky business in the near future due to lower growth rates of population and income, huge increases in capital and carrying costs, and the increased level of government intervention and citizen participation in the development process. Any factor that increases the level of risk in land development will increase the average profit margin required if business is to be willing to participate in land development. Increased risk also favours large, integrated firms over small firms



and thus may be another factor that will contribute to increased industry concentration in the future. This is not, of course, to suggest that governments and ratepayers groups do not have a very important role to perform in the land market. It is only to point out that government activities may at times indirectly contribute to higher land prices and industry concentration.



CANADIAN SERVICED LOT

AND

HOUSING PRICES



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Edmonton	77.56	9.0	4.9	2.7	02.3	16.3	10.7	45.3	85.2	50.5
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Vancouver Vetoria         45.0         45.2         58.6         76.0         88.0         100.0         99.6         134.4         231.1         247.6           Calgary         52.7         48.4         66.9         104.1         100.3         100.0         99.6         130.6         244.5         287.0           Edmonton         66.8         68.9         73.1         79.8         88.9         100.0         102.6         122.2         150.1         287.0           Redination         75.4         76.7         86.5         104.9         82.7         100.0         102.6         122.2         150.1         285.0         287.0           Minnibeg         84.6         88.5         89.9         93.4         97.2         100.0         112.3         112.2         187.1         287.0		1966	1967	1968	1969	1970	1971	1.972	1973	1974	1975	1
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107.5 128.5 N/A 190.4 117.1 100.0 156.7 135.4 139.0 133. 67.6 60.7 63.2 75.7 88.4 100.0 110.4 85.3 96.5 127. 77.2 85.8 100.0 114.3 157.8 200.5 210. 70.8 74.3 90.6 78.4 72.8 100.0 125.2 136.1 169.7 176.	Quebec City		73.	03.	05.	90,	00	33	A R	~	r C	
ohn 67.6 60.7 63.2 75.7 88.4 100.0 110.4 85.3 96.5 127. 59.5 65.4 66.3 77.2 85.8 100.0 114.3 157.8 200.5 210. 70.8 74.3 90.6 78.4 72.8 100.0 125.2 136.1 169.7 176.	Sherbrooke		28.	N/A	90	17	00		. נ ה		, ,	
59.5 65.4 66.3 77.2 85.8 100.0 114.3 157.8 200.5 210. 70.8 74.3 90.6 78.4 72.8 100.0 125.2 136.1 169.7 176.	Halifax		60.	m	75	8 8		, ,	1 u	。 りつ	500	
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Derived from Table Al



Average Dollar Value Per MLS Transaction for Selected Cities

	1966	1961	1968	1969	1970	1971	1972	1973	1974	1975	1976
Vancouver 15. Victoria 13. Calgary 15. Edmonton 14.	5200	17836	20596	23939	24239	26472	31465	41505	57861	64472	68694
	3144	15250	17624	22606	22187	23620	25610	32373	45900	52301	60062
	5556	16782	19445	22510	22771	23641	25373	31256	40120	51443	70249
	4893	16093	18870	21741	24743	24500	25521	29699	36214	45808	60956
	2411	13783	14529	15971	17249	16572	17220	20306	26507	34292	41955
Saskatoon 12 Winnipeg 13 Toronto 21 Hamilton 17 Ottawa 21	2910	14899	16488	16849	16569	16461	17177	19802	24979	34616	44687
	3770	13878	14870	16469	17470	18452	19579	21573	27619	33501	39668
	1950	24682	27637	29931	30141	31822	34076	44105	56121	58181	62805
	7005	19435	21767	23369	24363	24759	27434	33615	42528	45525	50223
	1521	21740	24537	27293	26890	29619	32303	39309	47231	49389	54925
London Kitchener Windsor St. Catharines	13831	15971	17171	19042	18387	20347	22837	26458	36178	40874	44502
	20938	23504	27983	28176	28390	30813	29005	36982	46052	46018	50195
	14927	16118	18890	20866	21418	21913	22484	25099	29853	33981	38646
	16360	17637	18202	19432	19697	19578	22515	25838	31060	36151	38591
	16026	19019	18885	20984	21834	26454	25847	24139	29421	33463	36818
Kingston Peterborough Thunder Bay Sault Ste. Marie Montreal	7689 3706 0903 3607	17442 14662 12349 14024 24758	21391 15059 13305 15581 25089	22038 18631 14314 15689 23702	23290 19958 16285 16886 23144	23404 18728 16944 23376 23693	24381 21155 20230 25985 25030	29978 24753 25376 25333 26385	37907 35615 31859 31553 33368	40230 35701 34022 33637 35467	43834 43164 43694 36472 39783
Quebec City 2 Sherbrooke 2 Halifax Saint John 1	18623 20205 18039 12788 13874	23047 16189 19144 14528 13392	23502 18358 19016 15035 17776	23540 19800 23266 15914 19102	30778 20750 23229 15933 19868	27854 22676 23904 19017 21380	38190 26727 25003 20488 22658	34597 22908 26586 23723 24246	30083 29153 31144 30308 28237	29586 31895 36187 34569 32074	34655 30939 41438 38484 33586

The Canadian Real Estate Association, Multiple Listing Service Annual Report 1976, p.30.

SOURCE:



Index of Average Cost Per MLS Transaction

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	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Vancouver Victoria Calgary Edmonton Regina	500 600 600 600 600 600 600 600 600 600	67.4 71.0 65.7 83.2	77.8 74.6 82.3 77.0	900 900 900 900 900 900 900 900 900 900	91.6 93.9 96.3 101.0	10000	118.9 108.4 107.3 104.2	156.8 137.1 132.2 121.2	218.6 194.3 169.7 147.8	243.5 221.4 217.6 187.0 206.9	259.5 254.3 297.1 248.8 253.2
Saskatoon Winnipeg Toronto Hamilton Ottawa	78.4 74.6 69.0 66.7	90.57 77.2 78.6 78.5	100.2 80.6 86.8 87.9 82.8	102.4 89.3 94.1 92.1	100.7 94.7 98.4 90.8	100.0	104.3 106.1 107.1 110.8	120.3 116.9 138.6 135.8	151.7 149.7 176.4 171.8	210,3 181,6 182,8 183,9	271.5 215.0 197.4 202.8 185.4
London Kitchener Windsor St. Catharines Sudbury	68.0 68.0 68.1 83.6 60.6	78.5 76.3 73.6 90.1 71.9	84.4 90.8 86.2 93.0	93.6 91.4 95.2 99.3 79.3	90.4 92.1 97.7 100.6 82.5	100.0	112.2 94.1 102.6 115.0	130.0 120.0 114.5 132.0	177.8 149.5 136.2 158.6 111.2	200.9 149.3 155.1 184.7	218.7 162.9 176.4 197.1
Kingston Peterborough Thunder Bay Sault Ste. Marie Montreal	75.6 73.2 64.3 58.2	74.5 78.3 72.9 60.0	91.4 80.4 78.5 66.7 105.9	94.2 99.5 84.5 67.1	99.5 106.6 96.1 72.2	100.0	104.2 113.0 119.4 1111.2	128.1 132.2 149.8 108.4	162.0 190.2 188.0 135.0	171.9 190.6 200.8 143.9	76707
Ouebec City Sherbrooke Halifax Saint John Moncton	66.9 899.1 75.5 64.2 64.9	82.7 71.4 80.1 76.4 62.6	884.4 79.00 83.1	84.5 87.3 97.3 83.7 89.3	110.5 91.5 97.2 83.8	100.0	137.1 117.9 104.6 107.7	124.2 101.0 111.2 124.7	108.0 128.6 130.3 159.4	106.2 140.7 151.4 181.8	124.4 136.4 173.4 202.4 157.1



# Percent Changes in MLS Dwelling Prices

	Percent	Change 969	Percent 1969-1	Change 972		nt Change 2-1975
	Nominal	Real	Nominal	Real	Nominal	Real
Vancouver	57.5	39.8	31.4	18.0	104.9	55.0
Victoria	72.0	52.6	13.3	1.7	104.2	54.5
Calgary	44.7	28.4	1.2.7	1.2	102.7	53.3
Edmonton	46.0	29.5	17.4	5.4	79.5	35.8
Regina	28.7	14.2	7.8	-3.2	99.1	50.6
Saskatoon	30.5	15.8	1.9	-8.5	101.5	52.4
Winnipeg	19.6	6.1	18.9	6.7	71.1	29.4
Toronto	36.4	21.0	13.8	2.2	70.7	29.1
Hamilton	37.4	21.9	17.4	5.4	65.9	25.5
Ottawa	26.8	12.5	18.4	6.3	52.9	15.7
London	37.7	22.2	19.9	7.6	79.0	35.4
Kitchener	34.6	19.4	2.9	-7.6	58.7	20.0
Windsor	39.8	24.0	7.8	-3.2	51.1	14.3
St. Catharines	18.8	5.4	15.9	4.0	60.6	21.5
Sudbury	30.9	16.1	23.2	10.6	29.5	-2.0
Kingston	24.6	10.6	10.6	-0.7	65.0	24.8
Peterborough	35.9	20.6	13.5	1.9	68.8	27.7
Thunder Bay	31.3	16.5	41.3	.26.8	68.2	27.2
Sault Ste-Marie	15.3	2.3	65.6	48.7	29.4	-2.1
Montreal	-0.4	-11.6	5.6	-5.2	41.7	7.2
Quebec City	26.4	12.2	62.2	45.6	-22.5	-41.4
Sherbrooke	-2.0	-13.0	35.0	21.2	19.3	-9.8
Halifax	29.0	14.5	7.5	-3.5	44.7	9.5
Saint John	24.4	10.4	28.7	15.5	68.7	27.6
Moncton	37.7	22.2	18.6	6.5	41.6	7.1
MEAN	31.3	16.5	20.5	8.1	62.3	22.7
SOURCE: D	ATC maha	100		-		angementation of the property of the special state.



Prices of Single Detached Dwelling Units Financed

Under the National Housing Act

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Vancouver	19554	20687	21949	24477	25591	27357	30474	36067	45766	47790	48246
Calgary	17980	898	900	275	259	389	489	928	761	647	000
Edmonton	17954	968	979	289	516	571	741	092	888	851	142
Regina	16549	729	783	114	605	680	903	280	745	331	057
Saskatoon	9	698	780	072	694	647	757	9	100	017	747
Winnipeg	0	862	267	248	304	158	369	717	652	30	125
Toronto	0	24878	25153	28644	29914	32646	32035	36218	25	57098	741
Hamilton	994	134	423	914	932	842	119	537	157	095	113
Ottawa	19829	997	805	055	079	095	1.95	681	94	240	59453
London	16675	802	923	430	376	534	623	900	540	617	213
Kitchener	18907	054	044	324	480	512	640	200	T T T	700	277
Windsor		262	314	734	916	10	000		100	1 0	0 0
St. Catharines	19395	20262	035	496	622	のより	730	700	170	700	240
Sudbury	5	835	19680	25031	25672	26580	33146	38049	36017	37377	40637
	,					) )	i i	) )	i >	)	200
Kingston	19063	975	289	635	762	621	882	290	477	200	222
Feterborough	16583	844	052	399	474	385	572	142	046	200	000
Thunder Bay	17452	879	021	444	412	587	000	603	4 7 8	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2000
Sault Ste Marie	17026	17917	19213	136	262	375	703	8 6 8	293	7 0 7	2 0 0
Montreal	18066	590	636	17015	17432	17834	18596	20686	25826	29584	32178
Onebec City	15709	C E O	122	0.0	,	(	f	9	1	1	
Steele Crey	0001	000	700	3 C D	133	806	7/6	140	556	952	179
snerbrooke	14504	492	715	106	774	871	696	281	620	757	073
Halitex	16998	713	028	975	400	715	764	857	993	503	545
Saint John	16410	17597	17272	20301	20451	21226	25900	25559	29845	30508	36691
Muncton	15393	664	836	0.95	565	686	073	216	582	037	000

THE DESCRIPTION AND THE PROPERTY OF THE PROPER

CWEC, Canadian Housing Statistics 1976, Table 91; CMHC, Canadian Housing Statistics 1974, Table 86; CMHC, Canadian Housing Statistics 1970, Table 86; CMHC, Canadian Housing Statistics 1970, Table 86; CMHC, Canadian Housing Statistics 1969. Table 82; CMHC, Canadian Housing Statistics 1967, Table 77. SOURCE:



Price Index (1971 = 100) of Single Detached Dwelling Units Financed

# Under the National Housing Act

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	<	82.9	99.4	93.0	100.0	102.6	118.0	180.6	α	37.	
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n 69.8 73.	73.8	77.	89.	7.	00	06.	20.	51.	88	38.	
102.	02.	. 90	5.	5.	00	13.	35.	63.	98.	241.4	
103.	03.	80	25.	02.	00	06.	21.	43	23	27	
86.	86.3	9	04.	06.	00	09.	25.	69	99	37.	
70.6 76.	9	~	87.	91.	00.	800	10.	90.	74.	75.	
Hamilton 70.2 75.1	υ,	85.3	102.5	103.1	100.0	109.7	124.4	146.2	179.2		
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3	7.		95.1	6	00	04.	8	51.	50	808	
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77.5 79.	6	-	01.	7	00	5	21	40	47	64	
65.	5.5	7	90	00	000	01.	0.5	0 -	29	30.	
chn	2.			9	00	22.	20.	40	43	72.	
	$^{\circ}$		05	78.7	100.0	104.1	111.4	1.29.8	147.6	154.9	

Derived from Table A6



Per Cent Changes in the Cost of Single Detached

Dwellings Financed Under the National Housing Act

_	Per Cent 1966-	Change 1969	Per Cent 1969-	Change 1972	Per Cent 1972-1	Change .975
	Nominal	Real	Nominal	Real	Nominal	Real
Vancouver	25.2	11.1	24.5	11.8	56.8	18.6
Victoria	33.9	18.8	3.2	-7.4	103.3	53.8
Calgary	26.5	12.2	9.4	-1.8	86.7	41.2
Edmonton	27.5	13.1	19.7	7.5	77.0	33.9
Regina	27.7	13.3	-10.0	-19.2	75.1	32.5
Saskatoon	26.4	12.2	-15.2	-23.9	717	29.9
Winnipeg	22.9	9.1	5.3	-5.5	81.6	37.4
Toronto	24.2	10.2	11.8	0.4	78.2	34.8
Hamilton	46.1	29.6	7.0	-3.9	63.4	23.6
Ottawa	54.1	36.7	4.6	-6.1	64.0	24.1
London	45.8	29.4	7.9	-3.1	38.0	4.4
Kitchener	22.9	9.1	13.6	2.0	75.1	32.5
Windsor	25.6	11.4	9.4	-1.8	26.6	-4.2
St. Catharines	28.7	14.2	9.5	-1.7	53.1	15.8
Sudbury	30.6	15.9	32.4	18.9	12.8	-14.7
Kingston	38.3	22.7	9.3	-1.9	52.3	15.2
Peterborough	44.7	28.4	7.2	-3.8	64.6	24.5
Thunder Bay	40.1	24.3	22.3	9.8	65.4	25.1
Sault Ste.Marie	25.5	11.4	26.6	13.6	54.6	16.9
Montreal	-5.8	-16.4	9.3	-1.9	59.1	20.3
Quebec City	16.8	3.6	7.5	-3.5	49.9	13.4
Sherbrooke	31.1	16.3	3.6	-7.0	40.0	5.9
Halifax	44.0	27.8	13.0	1.4	26.7	-4.2
Saint John	23.7	9.8	27.6	14.5	17.8	-9.2
Moncton	36.1	20.8	-1.1	-11.2	41.8	7.3
Mean	30.5	15.8	10.3	-1.0	57.4	19.2

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SOURCE:

Derived from Table A6 and CMHC Canadian Housing Statistics 1976, Table 106.



Lot Cost as a Percentage of Total Cost: New Single Detached

Dwellings Financed Under the National Housing Act

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Vancouver Victoria Calgary Edmonton Regina Saskatoon Winnipeg Toronto	230.05 230.05 20.05 20.05 20.08	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	221.5 220.7 230.6 17.0 17.5 33.1 31.5	225.5 231.6 16.8 19.1 33.7	227.7 233.0 23.0 23.0 35.0 8	2229 224.59 221.00 337.10 38.22	227.7 25.72 17.72 18.5 37.9 37.8	22222 2322 2322 2322 2322 2322 2322 23	24 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	455.9 27.0 17.2 18.0 32.7 41.0	4888 2840 000014 2840 000016 0000
Ottawa London Kitchener Windsor St. Catharines Sudbury	16.5 19.7 20.3 19.3 22.7 16.5	7 00040	0 4526	1 4947	8 49 H 9	44.14	6	0 0000		61862	0 047 8
Kingston Peterborough Thunder Bay Sault Ste. Marie Montreal Quebec City Sherbrooke Halifax Saint John Moncton	15.5 16.3 16.3 10.2 12.0 15.1	117.1 116.7 11.0 11.0 11.0 11.0 13.3	21.4 17.8 119.0 12.3 10.6 117.6 118.0	21.2 16.3 11.6 11.6 11.6 11.7 17.5 14.3	121.5 122.55 125.55 100.00 100.00 100.00	224.7 221.7 22.7 22.0 12.0 18.0 18.0 18.0	25.1 26.6 18.8 11.7 11.1 20.5 20.5	24.7 23.6 26.9 21.0 10.3 13.9 17.9 18.6	26.0 22.2 22.6 22.6 12.1 16.7 20.9	33.1 25.9 25.6 25.6 11.7 11.7 21.4	30.4 27.6 32.7 29.6 10.0 12.9 6.8 17.4
SOURCE: De	Derived from Housing Stat. Table 86; CM Housing Stat.	CMHC istic	Canadi s 1974, anadian s 1969,	an Hous Table 8 Housing Table 8	ing Sta 6; CNHC Statis 2; CNHC	tistics Canad tics 19	1976, Jan Hou 70, Tab	Table 9 Ising St ole 86; Ising St	1; CMHC atistic CMHC, Catistic	canad s 1972, anadian s 1967,	ian Table 77.



Listed below are the final terms of reference presented to the Task Force. Following each entry, we have noted which Chapter of Volume Two deals with that entry. The planned Table of Contents for the Task Force Research Studies Volume is also attached for cross-reference in Appendix 3.

### TERMS OF REFERENCE FOR

A FEDERAL/PROVINCIAL TASK FORCE ON

# THE SUPPLY AND PRICE OF SERVICED RESIDENTIAL LAND

### Subject Matter of Task Force Examination

The Task Force will be charged with preparing a Report in six to eight months after approval of the terms of reference. This Report is to present findings and to draw conclusions, rather than to make recommendations. The Report will be made public, in both official languages, immediately after its completion.

The Task Force will examine land markets in each province of Canada. Four types of land markets will be examined:

- those experiencing very high lot prices (for example, Toronto, Calgary, Edmonton, Ottawa, Vancouver);
- 2. those where ownership of land by private developers is concentrated (for example, Winnipeg, Ottawa, Calgary);
- 3. those which have a high degree of public ownership (for example, Regina, Charlottetown); and
- those where the cost of services is particularly high (for example, Halifax, St. John's).

These markets will be examined for:

- A. the proportion of the total price of housing formed by cost of serviced land; (Chapter 2)
- B. The component parts of serviced land prices:
  - (i) the cost of raw land to the developer; (Chapters 8 and 9)
  - (ii) the costs, including the impact of interest rates, of holding raw and serviced land until it is sold or leased; (Chapter 9)



- (iv) the impost and development charges
   imposed by a municipality;
   (Chapters 8, 9 and 11)

- C. The factors causing the level and escalation of serviced land prices:
  - (i) the form, operation and time frame of the development approval process; (Chapter 10)
  - (ii) effects of various standards of
     engineering, planning and density;
     (Chapters 8 and 10)
  - (iii) the control of the supply of serviced
     lots available on the market by
     developers;
     (Chapter 7)
  - (iv) the fiscal impact of residential
     development on municipalities;
     (Chapter 11)
  - (v) citizen resistance to residential
     development;
     (Chapter 12)

  - (vii) the effects of federal, provincial and municipal land programs of the respective housing agencies; (Chapter 14)



(x) the demand for land derived from demand
 for housing units.
 (Chapter 5)

Findings and conclusions will no doubt be more detailed for some factors and markets than for others.

### Structure

- A. For the purposes of managing the work of the Task Force, the federal and provincial Ministers responsible for Housing will constitute themselves as a steering group with a working committee made up of Deputy Ministers. The working committee will have the following purposes:
  - (i) to approve any changes proposed in the terms of reference as work progresses;
  - (ii) to approve allocations of resources
     required;
  - (iii) to approve the final Report as meeting the terms of reference.
- B. The Task Force shall be independent and shall consist of a Chairman and a Vice-Chairman, chosen by consensus of all Ministers, together with the staff and resources necessary for:
  - (i) preparation of a more specific study design and work plan;
  - (ii) coordination of the Task Force's work;
  - (iii) preparation of the Report.

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# PART I INTRODUCTION AND STATISTICAL OVERVIEW

Chapter 1: Introduction and Guide to the Study

Chapter 2: Canadian Land Prices: A Statistical Abstract

## PART II LAND PRICES AND THE LAND DEVELOPMENT PROCESS

Chapter 3: The Determinants of Land Prices

Chapter 4: Land Assembly, Middlemen, and the Price of Raw Land

Chapter 5: The Physical Processes of Land Development

Chapter 6: Development Corporation Finance and Performance.

# PART III AN ANALYSIS OF THE POSSIBLE CAUSES OF LAND PRICE LEVELS AND OF THE RECENT RATES OF PRICE APPRECIATION

Chapter 7: The Demand for Land and Housing

Chapter 8: Concentrated Ownership of Undeveloped Land

Chapter 9: Servicing Costs and Standards

Chapter 10: The Subdivision Approval Process

Chapter 11: Municipal Resistance to Development

Chapter 12: Citizen Resistance to Development

Chapter 13: Taxation

Chapter 14: Government Land Programs and Other Government Activities Affecting Land Prices

### PART IV SUMMARY AND CONCLUSIONS











